AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

JANUARY 15, 1952



Prunus Glandulosa Sinensis



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18 to 24 ins	40.00	12 to 18 ins. 18 to 24 ins. 2 to 2½ ft. 2½ to 3 ft.	45.00	12 to 18 ins. 18 to 24 ins. 2 to 3 ft.	\$ 25.0 35.0
2 to 3 ft	50.00	2 to 21/2 ft	55.00	2 to 3 ft	45.0
ALMOND, Pink, Own-root. 12 to 18 ins.		21/2 to 3 ft	60.00	SORBARIA sorbifolia.	40.0
12 to 18 ins	25.00	DEUTZIA Pride of Rochester.			35.0
		18 to 24 ins.	35.00	2 to 3 ft. 2 to 3 ft. SPIRAEA Anthony Waterer. 12 to 15 ins. 15 to 18 ins. 18 to 24 ins. 2 to 2½ ft.	45.0
2 to 3 ft	50.00	2 to 3 ft. 3 to 4 ft.	40.00	SPIRAEA Anthony Waterer.	
2 to 3 ft. 3 to 4 ft. BARBERRY, Red-leaved.	50.00	3 to 4 ft.	45.00	12 to 15 ins	28.0
		FORSYTHIA fortunei, intermedia.		15 to 18 ins	30.0
15 to 18 ins. 18 to 24 ins.	35.00	intermedia spectabilis.	30.00	18 to 24 ins.	35.0 45.0
18 to 24 ins	40.00 45.00	18 to 24 ins	40.00	SPIRAEA billiardi.	43.0
2 to 2½ ft. 2½ to 3 ft.	50.00	3 to 4 ft	50.00	18 to 24 ins	25.0
2½ to 3 ft. BARBERRY, thunbergi. 15 to 15 ins. 15 to 18 ins. 18 to 24 ins. 2 to 2½ ft. 2½ to 3 ft. BARBERRY, Truehedge Columnberry Plant patent No. 110	00.00	FORSYTHIA Spring Glory.		2 to 3 ft.	35.0
12 to 15 ins	16.00	18 to 24 ins	40.00	18 to 24 ins 2 to 3 ft 3 to 4 ft	45.0
15 to 18 ins	20.00	2 to 3 ft. 3 to 4 ft.	50.00	SPIRAEA froebeli.	
18 to 24 ins	25.00 30.00	3 to 4 It.	60.00	12 to 18 ins	22.0
21/2 to 3 ft	40.00	HONEYSUCKLE, grandiflora rosea.		18 to 24 ins	25.0
BARBERRY, Truehedge Columnberry	*******	Pink Tatarian, Red Tatarian.	28.00	2 to 21/2 ft.	30.0
Plant patent No. 110. 15 to 18 ins		18 to 24 ins	35.00	SPIRAEA thunbergi.	08.0
15 to 18 ins	30.00	3 to 4 ft.	45.00	18 to 24 ins	27.0 32.0
18 to 24 Ins	37.00 45.00	HYDRANGEA, A.G. and P. G.	-	21/2 to 3 ft.	40.0
RUDDLEIA Butterfly Bush	43.00	HYDRANGEA. A.G. and P. G. 12 to 18 ins.	30.00	SPIRAEA vanhouttei.	
Charming Ile de France		18 to 24 ins	40.00	18 to 24 inc	20.0
Charming Ile de France Dubonnet Orchid Beauty Medium		2 to 3 ft. 3 to 4 ft.	50.00	2 to 3 ft. 3 to 4 ft.	25.0
Medium	22.00	3 to 4 ft.	60.00	3 to 4 ft	30.0
	27.00	ILEX verticillata. 18 to 24 ins.	45.00	9 10 3 11.	35.0
BUDDLEIA, Butterfly Bush. Empire Blue (Patent No. 557)		2 to 3 ft.	55.00	SYMPHORICARPOS chengulti.	00 0
Royal Red (Patent No. 556)		KOLKWITZIA amabilis.	00.00	18 to 24 ins	28.0
White Bouquet (Patent No. 536) No. 1, dormant plants, field-grown		18 to 24 ins.	45.00	2 to 3 ft. 3 to 31/2 ft.	35.0
No. 1, dormant plants, field-grown	35.00	2 to 3 ft	55.00	VIRIIRNIIM laniago	
18 to 24 ins	30.00	3 to 4 ft.	65.00	3 to 4 ft	60.00
2 to 3 ft	40.00	LILAC, Common Purple.		VIBURNUM lentage. 3 to 4 ft. 4 to 5 ft.	75.00
2 to 3 ft. 3 to 4 ft. 4 to 5 ft.	45.00	12 to 18 ins.	25.00	VIBITONIIM malla	
4 to 5 ft	55.00	18 to 24 ins.	30.00 35.00	3 to 4 ft	60.00
		2 to 3 ft. 3 to 4 ft.	55.00	3 to 4 ft	75.00
18 to 24 ins. 2 to 3 ft. 3 to 4 it. 4 to 5 ft.	30.00 40.00	LILAC, Chi ese rothomagensis.	00.00	VIBURNUM opulus. 18 to 24 ins. 2 to 3 ft. 3 to 4 ft.	
3 to 4 ft	45.00	18 to 24	40.00	18 to 24 ins	40.00
4 to 5 ft	55.00		45.00	3 to 4 ft	60.00
ORNUS racemosa. 18 to 24 ins.		3 10 4 11	55.00	WEIGELA Bristol Ruby.	00.00
18 to 24 ins	35.00	4 10 3 11.	75.00	Plant Patent No. 492	
2 to 3 ft.	45.00	PHILADELPHUS corongrius.		3 to 4 ft.	80.00
2 to 3 ft. 3 to 4 ft. CORNUS, Variegated.	55.00	18 to 24 ins. 2 to 3 ft.	27.00 35.00	3 to 4 ft. 4 to 5 ft.	125.00
18 to 24 ins	50.00	3 10 4 11	45.00	WEIGELA Eva Rathke.	
2 to 3 ft.	70.00	4 to 5 ft.	60.00	18 to 24 ins.	40.00
18 to 24 ins. 2 to 3 ft. 3 to 4 ft. 4 to 5 ft.	85.00	PHILADELPHUS lemoinei.		2 to 3 ft. 3 to 4 ft. 4 to 5 ft.	50.00
4 to 5 ft	110.00	12 to 18 inc	25.00	4 to 5 ft	55.00
CONYLUS americana.		18 to 24 ins.	30.00	WEIGELA. Dwarf, variegated.	.0.00
18 to 24 ins	35.00	2 10 3 11.	40.00	12 to 18 ins.	25.00
COTONEASTER acutifolia.		PHILADELPHUS virginalis.	08.00	18 to 24 ins.	35.00
18 to 24 ins	35.00	12 to 18 ins	27.00 40.00	2 to 3 ft.	45.00
2 to 3 ft. 3 to 4 ft.	45.00 55.00	2 to 3 ft.	50.00	WEIGELA rosea.	
COTONEASTER divaricata.	33.00	2 to 3 ft. 3 to 4 ft.	60.00	18 to 24 ins	30.00
2 to 3 ft.	85.00	PHYSOCARPUS opulifolius.		2 10 3 11	40.00
2 to 3 ft. 3 to 4 ft.	100.00		30.00		50.00
YDONIA japonica.		2 to 3 ft. 3 to 4 ft. 4 to 5 ft.	40.00	The State of the Control of the Cont	93.90
PYDONIA japonica. 12 to 18 ins. 18 to 24 ins. 2 to 3 ft. 3 to 4 ft.	20.00	3 to 4 ft.	50.00		
18 to 24 ins	30.00	PHYSOCARPHS apulifolius sana	55.00	DITTE THE PARTY	
2 to 3 ft.	40.00	18 to 24 ins.	30.00	BLUE HYDRANGEA	
3 to 4 II.	50.00	2 to 3 ft.	35.00	2 year dermant extra beauty	- 1
EUTZIA gracilis. 12 to 15 ins. 15 to 18 ins.	40.00	PHYSOCARPUS opulifolius nana. 18 to 24 ins. 2 to 3 ft. 3 to 4 ft.	45.00	2-year dormant, extra heavy, field-grown.	
15 to 18 ins	40.00			The state of the s	
to to to ma.	50.00	12 to 18 ins. 18 to 24 ins.	22.00	9 to 12-in. transplants	.00
		2 to 21/2 ft.	35.00 40.00	Northern-grown. Extra nicel	
		21/2 to 3 ti	50.00		
		212 to 0 11	30.00		



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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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CONTENTS

Mechanization at Minnesota N	ursery 7
Pathologists and Entomologists By Noel Wysong	Meet
1952 All-America Selections	
Proper Time for Pruning	
Charlie Chestnut	
Realism and Self-Reliance By Richard P. White, A. A. N. Ex	
Plant Notes Here and There By C. W. Wood	24
Editorial 6 Business Predictions 6 Adult Education 6 Convention Time 6 Editorial Staff Changes 6	Obituary 50 —C. H. Andrews 50 —Louis Schnitzspahn 50 —Fred W. May 50 —Hugo Kind 51 —George C. Klehm 51
Self-employed Pay Tax 8 Nursery Census Figures 9 Tax Return Extension 12 Paper Goods Easier 12 Rose Society President 14 Oklahoma Awards 14 Tree Maintenance 28	Cascio Starts Courses in Adult Education
—Wound Dressings—Past and Present 28 This Business of Ours 36 —Wye Oak; Old Wye Church 36	California Association of Nurserymen
Not on Farm Machinery36	California Notes57
Coming Events 38 —Meeting Calendar 38 —Ohio Short Course 38 —Ohio Program Set 40	Book Reviews
—Canadian Program 42 —Oregon Program Set 43 —Pennsylvania Program 44 —Michigan Program Plans 45 —New Jersey to Elect 46 —New England Program 47 Natorp Employees 48	Cover Illustration 60 —Prunus Glandulosa Sinensis 60 Sponsor Nativity Scene 61 New Chrysanthemums 65 North Jersey Meeting 72 Turner Promoted 72 U. S. D. A. Appointment 82

INDEX TO ADVERTISERS

Adair Co., Charles	Garden Shop, Inc. 82 Gardner's Nurseries 21 Geiger, E. C. 70 General Package Corp. 80 Gey Band & Tag Co. 70 Graham & Co., John H. 81 Gresham's Nursery 37 Grootendoorst & Sons, F. I. 53 Gro-Quick Sales 79 Growers Exchange, Inc. 40 Guldemond Bros. 55	Overlook Nurseries, Inc
Allen Co. 69 American Bulb Co. 54 American Florist Supply Co. 72 American Landscape School 80 American Steel Band Co. 69	Geiger, E. C	Owen & Son. T. G
American Bulb Co. 54	General Package Corp80	Ozarks Plant Farms, Inc.
American Florist Supply Co72	Gey Band & Tag Co70	
American Landscape School80	Graham & Co., John H	
American Steel Band Co	Gresham's Nursery	Pacific Coast Nursery
American Steel Band Co. 69 Ammon, A. G. 51 Andrews Nursery Co. 45 Angel, Alfred L. 43-75 Apex Mfg. Laboratories 57 Arp Nursery Co. 54 Arterburn Nursery, Paul 52 Attin's Sons, L. 82 Auto Sickle Co. 74	Gro-Quick Sales 79	Pacific Coast Nursery Pacific Northwest Rose Nursery Paclack Bros. Nurseries, Inc. Peekskill Nurseries Perry Nursery Co., O. H. Peterson & Dering Plant Products Corp. Pontiac Nursery Co. Porter, Inc., H. K. Portland Whise. Nursery Co. Possum Hollow Nurseries Premier Peat Moss Corp. Premier Pout Moss Corp.
Angel Alfred L. 43-75	Growers Exchange, Inc. 40	Peekskill Nurseries
Apex Mfg. Laboratories57	Guldemond Bros55	Perry Nursery Co., O. H.
Arp Nursery Co54		Peterson & Dering
Arterburn Nursery, Paul	H-Man Mis & Trading Co. 20	Plant Products Corp.
Atkin's Sons, L	Half Moon Mig. & Trading Co. 79 Halpern Bros. 72 Harrod Bag Co. 75-82 Heacsley's Nurseries 40 Henry Nurseries 42 Herbst Bros. 1 Hels Nurseries 43 Hill Nursery Co. D Hillenmeyer Nurseries 49 Hill's Nursery 70	Poster Inc. W V
suto Sickie Co	Harrod Bag Co. 75-82	Portland Whise Nursery Co
	Heasley's Nurseries40	Possum Hollow Nurseries
F C Fd 5 2	Henry Nurseries	Premier Peat Moss Corp
agacon & Son, Edward 52 agatelle Nursery 34 alaley Nurseries, J. V. 45 aker Bros. Co. 33	Herbst Bros.	Premier Southern Ticket
giley Nurseries, I. V. 45	Hill Nursery Co D 94	Princeton Nurseries
caker Bros. Co33	Hillenmeyer Nurseries 49	
artlett Mig. Co	Hill's Nursery 70 Hobbs & Sons, Inc., C. M. 48 Hoffco, Inc. 91 Homestead Nurseries 55	Rambo's Whise. Nurseries, L. J
erryhill - Nursery Co43-75	Hobbs & Sons, Inc., C. M. 48	, Ra-Pid-Gro Corp.
ird & Son, Inc	Hoffco, Inc	Ravensberg, Maurice C
obbink & Atkins 20	Homestead Nurseries55	Reynolds, Harry H
obbink & Atkins 20 ond Equipment Co	Hoogendoorn, C. 34 Horsford, William Crosby 36 Howard Rose Co. 5 Humphreys Landscape Service 44	Ra-Pid-Gro Corp. Ravensberg, Maurice C. Reynolds, Harry H. Rich & Sons Nursery Richardson & Co., H. D. Robinson Sales Agency, E. D. 20-
ostitch, Inc	Howard Rose Co	Robinson Sales Agency F D 20
ostitch, Inc. 27 oulevard Nurseries 73	Humphreys Landscape Service 44	Roper Mfg. Co.
oxwood Gardens50		Roper Mig. Co
oyd Nursery Co., Inc		Rough Bros.
raden K I	Ilgenfritz Nurseries, Inc. 47 Indiana Hickory Furniture Co., Inc. 73	
radson Co. 78	indiana Hickory Furniture Co., Inc73	C
roadway Mch. & Mig. Co		Scarff's Sons, W. N. Schroth's Nursery Semmes Nurseries
rookdale-Kingsway, Ltd53	Tewell Nurseries	Semmes Nurseries
rooktield Gardens32	Jewell Nurseries 26 Johnston, Wm. A. 57 Judson Wholesale Nurseries 52	Shepard Nurseries
oulevard Nurseries 73 oxwood Gardens 50 oyd Nursery Co., Inc. 40 rimfield Gardens Nursery. 36 braden Co. 78 roadwory Mch. & Mfg. Co. 80 rookfield Gardens 32 rookfield Gardens 32 rown Deer Nurseries 28 rown Deer Nurseries 41	Judson Wholesale Nurseries	Sherman Nursery Co.
1		Sherwood Nursery Co
ruco Peat Moss Corp. 78	Kalamaroo Parattine Co. 22	Sherwood Nursery Co. Siebenhaler Co. Sizemore, Charles Skinner Irrigation Co. Smith & Son, Seymour Smith Corp., WT. Sneed Nursery & Landscape Co. Southern Nursery & Landscape Co. Spelman Co., J. R. Springbrook Gardens Standard Engineering Works Stanwade Metal Products. Stribling's Nurseries
yant's Nurseries 50	Kalamazoo Paraffine Co. 77 Kallay Bros. Co. 48 Kelly Bros. Nurseries 52 Koster Nursery 21 Krieger's Wholesale Nursery 51 Kuemmerling, Inc., Karl. 74	Skinner Irrigation Co
alk's Nurseries	Kelly Bros. Nurseries 52	Smith & Son, Seymour
ulk's Nurseries	Koster Nursery21	Smith Corp., WT.
urr & Co., Inc., C. H	Krieger's Wholesale Nursery51	Sneed Nursery Co
arton's militop Nurseries50	Kuemmerling, Inc., Karl74	Southern Nursery & Landscape Co
		Spelman Co., J. R.
	LaBars' Rhododendron Nursery38	Standard Fraincesing Works
alifornia Nursery Co	Lake Sammamish Evergreen Nursery57	Stanwade Metal Products
amphell-Hausfeld Co71	7 -1 -1 - (2)1 -1 37 1 40	Stribling's Nurseries
arnon Nursery Co	Lansing Specialties Mig. Co74	Sudbury Soil Testing Lab.
artwright Nurseries	Leeland Farms	Summit Nurseries
dambell-Hausfeld Co. 71 ariton Nursery Co. 60 arpenter & Co., George B. 79 artwright Nurseries 50 hompion Sprayer Co. 76 house Co., Benjamin 78 lassified Ads. 62-63-64-65-66 lavey, Inc., Elmer 77 learfield Bituminous Coal Corp. 50 loverset Flower Farm 23 ole Nursery Co. 47 ommercial Nursery Co. 47 omgdon Nursery, Ivan R. 51 onigisky, B. F. 77 ooperative Rose Growers. 60-66 orliss Bros. 47 zumberland Plateau Nursery 48 urtis Nurseries 41	Lansing Specialties Mig. Co. 74 Leeland Farms 48 Le Feber & Co. 53 Leghorn's Evergreen Nurseries 24 Leonard & Son, A. M. 78	Stribling's Nurseries Sudbury Soil Testing Lab. Summit Nurseries Suncrest Evergreen Nurseries Sunny Ridge Nursery Swift & Co.
hase Co., Benjamin	Leonard & Son. A. M. 78	Swift & Co
lassified Ads	Lindig Mfg. Co70	Swift & Co
lavey, Inc., Elmer	Lindig Mg. Co	
learned Bituminous Coal Corp50	Loewith, Inc., Julius69	Tankard Nurseries
ole Nursery Co	Lovett, Lester C	Tankard Nurseries Tingle Printing Co
ommercial Nursery Co. 47	Luker, 1. & D	Tormey's
ongdon Nursery, Ivan R		
onigisky, B. F	Maloney Bros. Nursery Co., Inc., 66	
poperative Rose Growers	Malow Cordage & Twine Co	Ullyette Bros. Nursery
ornes Bros	Matthews Nursery42	Ullyette Bros. Nursery United States Rubber Co. 2 Universal Mfg. Co. 7
ysici soap & Chemicai Co32	McFarland Co., J. Horace39	Universal Mig. Co
ertis Nurseries 41	McIningh Greenhouses	
I	Meehan Co. Thomas B. 41-72	Mandasharah Manasias
	Mennes Nurseries, Menno S. 90	Van Dine Nursery
	Milton Nursery Co	Van Veen Nursery
ryton Fruit Tree Label 71	Mitsch Nursery	Vennard's Nursery
ryton Fruit Tree Label 71 verfield Nurseries 36 vl-Mar-Va Nurseries 40	Monarch Shingle Co	Verhalen Nursery Co. 45-5
I Panaha Fartuna 40	Montoballa Rose Co	Verkade's Nurseries2
erfler & Sons F. A 50	Moran E C	Vanderbrook Nurseries 3 Van Dine Nursery. 3 Van Veen Nursery. 5 Vennard's Nursery 5 Verhalen Nursery Co. 45-5 Verkade's Nurseries 5 Vuyk Van Ness Nurseries 5
ty & Doerner, Inc. 61	Mount Arbor Nurseries 2	
w Chemical Co. 41	Mount Vernon Nursery 52	205 B.J.
1 Rancho Fortuna 57 erfler & Sons, F. A. 58 ty & Doerner, Inc. 61 w Chemical Co. 41 umm, J. M. 46	Maloney Bros. Nursery Co., Inc. 66 Malow Cordage & Twine Co. 59 Matthews Nursery 42 McCarland Co., I. Horace. 39 McGill & Son, A. 61 McIninch Greenhouses. 94 Meehan Co., Thomas B. 41-72 Mennes Nurseries, Menno S. 80 Milton Nursery Co. 59 Mintsch Nursery 58 Monarch Shingle Co. 60 Monrovia Nursery Co. 19 Montebello Rose Co. 58 Moran, E. C. 54 Mount Arbor Nursery. 54 Mount Arbor Nursery. 58 Mount Morey Co. 59 Mount Report Nursery 58 Mount Office State Sta	Want Ads 6 Washington Nurseries 6
	Multiplex Display Fixture Co	Washington Nurseries 65 Waynesboro Nurseries 46-5
	Musser Forests, Inc60	Wayside Gardens
gle Creek Nursery Co		Wayside Gardens 4 Weeks Wholesale Rose Grower 5
gle Creek Nursery Co. 44 stern Shore Nurseries, Inc. 38	National Landscape Institute50	Weller Nurseries Co., Inc. 4
ner Roses	Ngtorp Co., W. A. 50	Wentzell's Nursery 3 Westminster Nurseries 3
ch Nursery58	Neal Bulb Co. 54	Westminster Nurseries3
ergreen Nursery Co	New Amsterdam Import Co. 74	Whitney Seed Co
	New Jersey Farm Supply	Whitney Seed Co. 5 Wight Nurseries 4 Williams & Harvey Nurseries 6
	Cooperative Association 76	Williams Isaac Langley 16-17-1
deed Inc. Council 20	Newport Nursery Co	Willis Nursery Co
fard, Inc., Conrad 78	New Yorker Bag & Burlap Co. 77 Noleridge Nurseries 52	Willowbend Nursery 4
	Noleridge Nurseries 52	Woodruff & Sons Inc. F H 5
strview Evergreen Nurseries34		
rm Landscape Co		W-W Grinder Corp
rm Landscape Co	Ohio Nursery Label Co. 80	W-W Grinder Corp. 7
rm Landscape Co	Ohio Nursery Label Co	W-W Grinder Corp7
rrm Landscape Co	Ohio Nursery Label Co. 80 Oliver, M. 51 Onarga Nursery Co., Inc. 40 Oregon Bulb Farms 60	W-W Grinder Corp. 7 Yoho & Hooker 8 York Modern Corp. 7

Forms for the February 1 issue will close Monday, January 21.

Forms for the February 15 issue will close Monday, February 4.

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American N<u>urseryman</u>

F. R. KILNER, Editor and Publisher Kenneth A. Brent, Managing Editor

Editorial

BUSINESS PREDICTIONS.

The uncertainty of business forecasting is apparent when one reviews the predictions made a year ago for 1951. While employment, national production and personal incomes climbed during the year as was anticipated, neither the course of prices nor the availability of consumer goods turned out as foretold. Instead of shortages of consumer goods, there were surpluses; instead of prices soaring to levels that required government ceilings, they leveled off or sank considerably below such ceilings. Soon sensing the absence of shortages, the consuming public curtailed its buying enthusiasm.

The big wave of inflation officially predicted for 1951 did not materialize. The average of all commodity prices at the end of the year was only 1.4 per cent above a year ago. It declined in early summer and has not been able to advance since, being now nearly four per cent below the level of last March. The prophets of runaway prices underestimated the nation's capacity to produce. Improved methods and efficiency in operation increased the production of merchandise in many lines.

While price ceilings have not affected horticultural products, it is interesting to note that many are now so far above present market levelsas much as 40 per cent-that the office of price stabilization has orders in process to reduce the ceilings, though there may be some pressure in the new Congress to do away with a good many of them altogether.

There may be a change in 1952 if the output of armament materials hits a faster stride. It is still possible that the public may have to forego some of the butter in order to supply guns.

Government economists, though less emphatically than last year, are looking for something like a five per cent increase in prices during 1952. These predictions are based on steadily increased defense spending, the direct effect of higher wages and reductions in inventories of consumers' goods. In general, these were the same factors that formed the basis of predictions at the beginning of

Probably the answer lies in the at-

The Mirror of the Trade

titude of the public, as it has in the latter months of this year. Although the national income has been at a record high and is still rising, there seems no such lavish spending on the part of the public as was exhibited during wartime. Nor have warnings of shortages and higher prices in recent months prevented the public from saving more money than usual, with consequent reduction in retail sales in most mercantile lines.

Added to the psychological factors which govern the course of business in 1952 is the fact that it is an election year. The possibility of a new administration at Washington, or even of a new Congress, that is more economy-minded may betoken the slackening of inflationary pressure.

In one respect businessmen may benefit in 1952 from their experience in 1951, when they learned that some good, old-time sales effort was necessary and that the period of order takers had passed. The past year saw a continued high level of sales for nurserymen in general. The condition of the industry is good, even vigorous, and it is ready to take advantage of any favorable factors that the new year may present.

ADULT EDUCATION.

Not so many years ago, the evening courses offered adults at public schools, in English and other languages, civics, history and the like, were supplemented by courses in sewing, manual training and other home activities. The topics covered today in what are called adult education courses, offered in the evening by high schools and colleges the country over, include all sorts of hobbies, as well as ramifications of the fine arts.

Not many schools include any sort of course in horticulture, but the number is increasing on the Pacific coast, where gardening is more or less a year-around activity. Flower arrangement is becoming a popular subject. The interest expressed by students in horticultural topics indicates that many more courses might be offered if the means were provided for presenting them.

On another page of this issue is reported the institution of an adult education course on landscaping by an enterprising nurseryman of Connecticut, whose interest in promoting the industry has brought him not only local and regional elective offi-

ces in trade associations in the past decade, but also the vice-presidency of the American Association of Nurserymen. He makes the procedure sound simple, and it is to be hoped that its simplicity will induce nurserymen in other localities to promote similar courses. Certainly, courses of this sort promote not only knowledge of plant use and care, but interest in the nurseryman's products in his locality.

CONVENTION TIME.

During this month and next, the calendar is crowded with conventions of state and regional associations. The list of such meetings becomes longer each year, as the smaller organizations become larger and their programs become more extensive.

Each year, also, the contents of the programs are weightier, as more effort and expense are devoted to securing speakers with pertinent messages and valuable information. As the programs are extended, oneday meetings are extended to two days, while those formerly two days in length now require three.

Attendance is likewise larger, year by year, but in most states the proportion of the nurserymen in the area, or even of association members, who attend the annual meeting is not what it should be. No matter how much information can be secured at secondhand from the conventions, greater value is to be obtained by personal attendance, if only for the contact it gives with fellow nurserymen and the opportunity for discussion of those local problems which seldom reach the convention floor. One of the best new year resolutions any nurseryman can make is to attend as many trade meetings [Continued on page 53.]

EDITORIAL STAFF CHANGES.

Joan Kilner, daughter of the editor of the American Nurseryman and well known to many readers for her work as assistant editor the past few years, as well as for her attendance at numerous trade conventions, was married December 26 to Hugh R. Mills and now resides at Tyler, Tex.

Kenneth A. Brent, who has had several years' experience in the publication of trade periodicals and joined the staff recently, is now managing editor.

Mechanization at Minnesota Nursery

To meet the labor shortage and to reduce production costs, the J. V. Bailey Nurseries, St. Paul, Minn., have completed a program of mechanization, covering tillage, cultivating and digging operations. Employing general-purpose Farmall tractors, they perform most of these operations with the cheaper standard tools used everywhere to produce corn, vegetables and other general row crops. The use of these standard tools, especially in multi-row cultivation, has enabled the Baileys to bring about notable reductions in production costs.

In recent years they have made radical changes in their beds of evergreen seedlings to adapt them to the use of standard Farmall vegetable cultivators. The beds are similar to those utilized by big commercial truck farmers, with five rows to each bed. The result is faster and cheaper cultivation. Also, by the use of weeder attachments, closer and better tillage is done and handwork

thus is greatly reduced.

Used in cultivating these beds of seedlings, a standard C-652 6-row vegetable cultivator, adapted for 5row operation and with weeder attachment, is shown in the illustration on this page. A wide front axle, instead of the usual narrow Farmall front axle, is employed so that the front wheels can straddle the beds with their five rows of seedlings. The illustration shows the equipment cultivating beds of 4-year-old spruce seedlings that had been transplanted once. They are shown in 1-foot rows with 2-foot aisles and six feet from center to center of beds.

Still another cost-saving use of a standard cultivator is shown in the illustration at the top of the next page. A smaller high-clearance Farmall AV is shown with a standard AV-136 cultivator, cultivating ornamental purple-leaf plum budded on wild plum and planted in rows three feet eight inches apart and spaced ten inches apart in the row. Incidentally, these rows are contoured on a terraced hillside. This contouring and terracing was done with the cooperation of the local United States soil conservation advisers.

Next below, the smallest Farmallis shown with a special U-shaped lifter mounted beneath the tractor and hydraulically raised and lowered. This lifter was built in the Bailey shop. The depth range is six to fourteen inches, depending on the

type of plants to be dug. The tractor is shown operating in a plot of junipers, with Donald Nordine, manager of one of the nursery farms, at the wheel.

Illustrative of harvesting operations, the Kelly digger or lifter, hydraulically operated, is shown mounted on a Farmall M, largest of the series, at the bottom of the next page. This lifter is equipped with a U blade, which is worked with some downdraft to a maximum depth of eighteen inches under the row of shrubs. In the picture the digger is shown lifting 2-year-old Siberian pea tree shrubs, while it is inspected by Vincent and Gordon Bailey.

Begun in a modest way in 1907 on a small acreage as a combination truck farm and nursery, the J. V. Bailey Nurseries now consist of three intensively cultivated farms, totaling 740 acres. Both Vincent K. Bailey and Gordon Bailey were born on one of the farms, on which each now maintains a roomy home and on which their shops, greenhouses and processing plant are also located. Thus, they practically grew up with the business. Both were educated at the University of Minnesota, where they specialized in horticulture. This affiliation with the university continues in the conduct of various cooperative plant-breeding activities.

The Baileys now specialize in the production of evergreens, shade trees and ornamental shrubs. They are one of the largest nursery growers of spruce seedlings in the country, having thirty-five acres in three varieties of spruce grown from seeds and up to

16 years old. They also have considerable acreages in junipers of the pyramidal spreading type and arborvitaes, mostly of the pyramidal types. A side line is a 30-acre orchard. In cooperation with the University of Minnesota, the Baileys are growing and testing hardy varieties of pears, apples and plums.

Over 5,000,000 plants are grown at the J. V. Bailey Nurseries, and some 1,500,000 of these are transplanted each year. Gordon Bailey supervises the office and shipping, while Vincent supervises the outside

work.

The Bailevs' interest in up-to-date nursery and farming practices is evidenced by their adoption of a comprehensive terracing and contour farming program suggested by representatives of the United States Soil Conservation Service. Based on surveys made by the service, they now have built over ten miles of terraces and are continuing this work as fast as practicable. Vincent Bailey said that, although not so many trees can be planted on terraced and contoured plots, growth is ten to twenty per cent faster and quality is much better. In recognition of their splendid soil conservation work, the J. V. Bailey Nurseries in 1949 were named the "Minnesota Soil Saver of 1949" in a special contest conducted by the Minneapolis Star and Tribune.

Soil fertility is built up by growing various cover crops and planting alfalfa. The Baileys also apply 3,000 tons of manure each year, which is hauled in from nearby stockyards. Cost of this manure is about \$2 a



Mechanically Cultivating Bed of Five Rows of Spruce Transplants.

ton, which includes 60 cents for purchase at the yards and 60 cents for hauling. The spreading is done with three spreaders, and, when going well, Vincent Bailey said, they spread 200 tons a day.

Both Baileys are active in the trade association affairs. Gordon Bailey recently served two one-year terms as president of the Twin City Nurserymen's Association, and Vincent served as president of the Minnesota State Nurserymen's Association for two one-year terms.

SELF-EMPLOYED PAY TAX.

Thousands of individuals will pay social security taxes for the first time this year.

In 1950 amendments to the social security act extended that act's coverage to most self-employed individuals. These individuals will have to pay a 2½ per cent tax on their 1951 earnings. Since only the first \$3,600 of income is subject to the social security levy, the maximum tax for 1951 will be \$81. Self-employed persons covered by the act have no choice; they must pay the tax whether they want social security benefits or not.

In general, persons subject to tax include individuals who own their own businesses and individual contractors who do not work for wages. Most professional persons are not subject to the tax. No individual whose income is all from salary or wages will have to pay the tax. And if an individual's income is only from dividends and interest on investments, rentals from real estate, from capital gains or from annuities or pensions, he will not have to pay the tax. Income from farming also is exempt.

All self-employed persons subject to the act must get a social security account number and card before filing an income tax return for 1951.

The self-employment tax must be reported and forwarded with the regular 1951 income tax return, which is due no later than next March 15.

If your net earnings from self-employment are less than \$400, no self-employment tax will be payable. But you must segregate this self-employment income on your 1951 return. In exceptional cases, an individual may have less than \$600 in gross income, so that ordinarily an income tax return would not have to be filed, but more than \$400 in self-employment net income. If an individual falls in this category, he must file a return.



Cultivating Purple-leaf Plums Planted on Contour.



Donald Nordine, Farm Manager, Operates Home-made Lifter in Plot of Juniper.



Vincent and Gordon Bailey Inspect Kelly Digger Mounted on Large Farmall.

Pathologists and Entomologists Meet

By Noel Wysong

The joint meeting of the American Phytopathological Society and the American Association of Economic Entomologists, held December 10 to 12, 1951, at Cincinnati, was attended by plant pathologists and entomologists from all sections of the nation. Due to the diversity of interests within both groups, the program was conducted in sectional group sessions, the several sections holding meetings simultaneously in separate rooms.

Among the topics of interest to arborists and plantsmen generally on which papers were presented, were the following:

Oak Wilt Disease.

A method by which the fungus causing oak wilt may be grown more quickly in laboratory cultures, thus speeding up identification of the disease, was reported by H. L. Barnett, of the University of West Virginia. On a special agar medium consisting of glucose; phenylalanine; potassium phosphate; magnesium sulphate: sulphates of iron, manganese and zinc; biotin; agar, and distilled water, the mycelium of the fungus develops sufficiently in from three to five days for identification under the microscope. This may result in a shortening of the time between collection of samples from suspect trees and positive determination of whether or not the tree is infected with the disease.

Results of experiments conducted by C. H. Beckman, of the University of Wisconsin, indicate that the oak wilt disease causes tylosis, or plugging of the conducting tissues, in the trunk and branches of infected trees. Using radioactive rubidium, it was ascertained that upward movement of liquid in the xylem vessels of healthy trees, and in trees inoculated with the disease but in which the wilt symptoms had not yet appeared, was approximately one foot per minute. With the appearance of the first symptoms of wilt, the rate of movement was reduced by ninety per cent. and as the disease progressed throughout the tree the normal rate of movement of liquids was reduced by ninety-nine per cent. This plugging of the conducting vessels seemed to be confined to the trunks and branches; no important plugging was observed to occur in the roots. Dr. Beckman said that the results of his experiments indicate that "vessel plugging is a direct response of the

host to infection; that such obstruction may limit the available water supply, and that this shortage may contribute to leaf symptoms."

Results of Inoculation.

James E. Kuntz, also of the University of Wisconsin, reporting on oak wilt development in relation to time and place of inoculation and concentration of inoculum, said that northern pin oaks inoculated in the roots with sixty-five million spores per tree developed widespread incipient wilt within three weeks following inoculation. Inoculation in lateral branches also resulted in symptom development in three weeks, but initial wilting and the fungus as confirmed by culture tests were confined to the inoculated branches. The foliage of the crown often remained normal for as long as seven weeks after inoculation. Symptom development was similar when inoculation was made in the terminal branches of the crown. Often the disease was isolated from branch samples taken from various

portions of the tree a week before the first symptoms of wilt occurred. When the number of spores introduced into the tree was reduced from 65,000,000 to 6,500 and to sixty-five, the period of time clapsing between inoculation and appearance of the first symptoms of wilt was increased, Dr. Kuntz said, and branchinoculated trees developed symptoms sooner than root-inoculated oaks.

evenuel 1

In greenhouse tests, five more tree species were proved susceptible to the oak wilt disease, said Dr. T. W. Bretz, United States Department of Agriculture forest pathologist stationed at Columbia, Mo. These trees are tanoak (Lithocarpus densiflorus), bush chinquapin (Castanopsis sempervirens), European chestnut (Castanea sativa) and two Asiatic oaks, Quercus acutissima and Quercus dentata. Symptoms of the disease in these potted greenhouse trees, as indicated in color slides used by Dr. Bretz in illustrating his remarks, were quite similar to those displayed by infected trees of the more common oak species. Upward and in-

Nursery Census Figures

Total sales during 1949 of the 4,643 nurseries included in the 1950 special census of agriculture were over \$132,800,000, according to a special report issued December 31, 1951, by Roy V. Peel, director of the bureau of the census of the Department of Commerce. The total sales included \$50,100,000 for wholesale sales and \$82,700,000 for retail sales. The wholesale value of the crops sold by nurseries in 1949 was \$71,000,000.

Over 38,000 persons were employed in 1949 by nursery establishments. Of these, 14,661 were year-round employees, 922 were paid officers of corporations, 14,556 were other paid employees on the payroll on March 15, 4,962 were proprietors of unincorporated establishments and 3,027 were members of the family of the operator, not being paid wages.

Nurseries spent more than \$46,-000,000 for wages and salaries in 1949. Over \$2,000,000 were spent for manure and fertilizer, over \$750,000 for insecticides and fungicides, al-

most \$5,000,000 for seeds, plants and bulbs for nursery planting and almost \$5,000,000 for advertising in 1949.

The value of land, structures and equipment used by the 4,643 nursery establishments amounted to more than \$110,000,000 in 1950. These establishments had 3,800,000 square feet of greenhouse area, 6,073,000 of storage floor area and over 2,118,000 cubic feet of refrigerated storage in 1950.

Crops sold in 1949 included 3,919,000 deciduous ornamental trees, 21,463,000 deciduous shrubs, 46,220,000 rose plants, 13,000,000 broad-leaved evergreens, 12,403,000 other ornamental evergreens, 27,991,000 herbaceous plants, 3,083,000 apple trees, 4,707,000 peach trees and 166,652,000 strawberry plants.

The 1950 special census of nurseries was taken as a part of the 1950 census of agriculture. Only nursery establishments having sales of \$1,000 or more in 1949 were included in this special census.

ward rolling of the leaf blades on the leader and terminals of lateral branches was followed by stiffening of the foliage, progressive loss of leaf color and ultimate death and browning of the leaf tissues, the symptoms progressing from the upper branches downward throughout the tree.

Dr. Bretz also reported that when compatible strains of the oak wilt fungus, Chalara quercina Henry, are thrown together in suitable media, the perithecial or "perfect stage" develops. The ascospores produced by the fungus during this stage were found to be capable of causing infection in healthy oak trees. Said Dr. Bretz, "Typical oak wilt symptoms have been obtained in susceptible species inoculated directly with ascospores and with single ascospore isolates." Since the form of the fungus discovered by Dr. Henry some years ago, which has re-ceived general recognition among plant pathologists, is the "imperfect" or asexual stage, Dr. Bretz's discovery represents a distinct step forward in research on the disease.

Visible Fungus Mats.

E. A. Curl, of the Illinois Natural History Survey, Urbana, reported the finding of visible fungus mats, more or less tan in color, between the bark and the wood of diseased oaks. Pure cultures of the oak wilt fungus, he said, usually could be obtained by direct transfer of the mycelium of which these mats are composed. He said that the fungus was observed in the cambial region and frequently grew along insect galleries.

Experimental work in oak wilt chemotherapy was described by Paul Hoffman, formerly of Iowa State College, but now associated with Illinois Natural History Survey, Urbana. Working in Iowa during 1949, 1950 and 1951, they applied various chemicals to northern red oak (O. borealis), Hill's black oak (Q. ellipsoidalis) and pin oak (Q. palustris) by bole injections, subsurface soil applications and foliage sprays. Dr. Hoffman said that root zone applications under pressure gave the best results and that in general, the results obtained through chemotherapeutic treatment were sufficiently promising to justify further investigations.

In addition to presentation of formal papers during the conference, one entire evening was devoted to an informal discussion of the oak wilt situation, with Dr. A. J. Riker, University of Wisconsin, serving as chairman. Plant pathologists and others working on various phases of the oak wilt disease told of the work being done in their respective states. In many areas the work, to date, has been restricted to automobile and aerial surveys to ascertain the distribution of the disease. Measures directed toward preventing spread of the disease, involving isolation of centers of infection by trenching, the use of chemical poisons and sanitation, have been initiated in some sections. The states in which the oak wilt disease is now known to be present include Wisconsin, Iowa, Minnesota, Nebraska, Kansas, Illinois, Indiana, Missouri, Arkansas,

Tennessee, Ohio, Michigan, Pennsylvania, Maryland, West Virginia and North Carolina. That the oak wilt disease is of paramount interest to those concerned with forest and shade tree growth was evidenced by the full-house attendance at this evening meeting. The discussions were excellent.

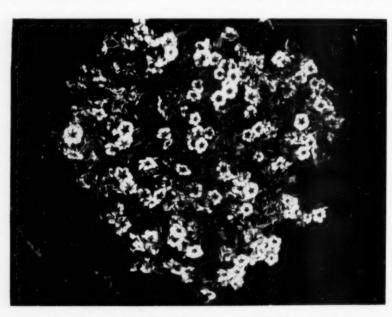
Raspberry Diseases.

Robert H. Fulton, of Michigan State College, told of results obtained through the use of various fungicides to control infection by spur blight and anthracnose on raspberry. On plants infected with spur blight, the sprays were applied when the suckers, or sprout growth, were seven to ten inches in height and again twelve days later. On unsprayed plants, sixty per cent of the buds were infected. Use of Ferbam reduced the amount of infection to 10.4 per cent; Ziram, to 25.6 per cent, and tribasic copper to 32.5 per cent. Sodium salt of dinitro ortho cresol, applied as a dormant spray, reduced the amount of infection only ten per cent. Anthracnose on unsprayed plants averaged 173 lesions per single cane. A dormant spray of one per cent Krenite 26 (sodium salt of dinitro ortho cresol) reduced infection 55.5 per cent; a delayed dormant spray of liquid lime-sulphur (121/2 gal./100 gal.) gave 68 per cent reduction.

New Diseases of Trees.

George H. Hepting, pathologist, U. S. D. A. bureau of plant industry, reported a new species of rust disease found on Virginia pine (Pinus virginiana) in Virginia, West Virginia, North Carolina and Tennessee. The disease forms cankers on the trunk and branches and occasionally causes death of the infected tree. No alternate host plant has been found to date.

A. E. Dimond, Connecticut agricultural experiment station, speaking of chemotherapeutants for plant diseases, said that 2-carboxymethylmercaptobenzothiazole salts reduced the severity of Dutch elm disease when applied as a foliage spray with nonphytotoxic oil. In the tests, the sprays were applied five times at weekly intervals and the trees were then inoculated with the fungus, Ceratostomella ulmi, which causes the Dutch elm disease. Four weeks later, said Dr. Dimond, the disease grades in the treated and control plots were, respectively, 6.2 and 32 per cent, and eight weeks later they were 12 and 58 per cent.



Globe Mixed Phlox Awarded Honorable Mention in 1952 All-America Selections.

1952 All-America Selections

ALL-AMERICA FLOWER SELECTIONS FOR 1952.

Winner of a silver medal in the All-America Flower Selections for 1952 is Fiesta cosmos, the first bicolor annual Klondyke cosmos and the earliest to flower. Honorable mentions went to Ballerina petunia, Persian Carpet zinnia and Globe Mixed phlox. All four are annuals, easily grown from seeds.

Fiesta, with wide stripings of scarlet and gold lengthwise in each petal, is the first cosmos in which scarlet appears. Growth is similar to Orange Flare, but there are more petals on the blooms, resembling the ruffled petals of Orange Ruffles, semidouble in appearance. The flowers are profuse and are borne singly on slender, wiry stems for easy cutting. The bushy growth of the plant, with its airy foliage, reaches a height of about two feet.

Easily propagated from seeds without transplanting, Fiesta cosmos will grow in almost any sunny location, blooming in about six weeks. It seems to be free from insect and disease pests. Early to flower, it drops seeds, and a second crop of flowering plants may be had while the first planting is still in bloom. It is a refreshing novelty of California breeding and may be mixed in border plantings or planted in clumps or rows in the cutting garden.

Ballerina petunia produces glowing, salmon-pink blooms from early spring until late autumn. Belonging to the dwarf, giant-fringed class, the large flowers are daintily laced and ruffled for attractive cut flower ar-



Ballerina Petunia.

rangements, as well as for display in the garden. The hybrid vigor of Ballerina provides uniformity in strong, compact growth and steady



Klondyke Fiesta Cosmos.

production of the large flowers. It is well adapted to planting in beds, low borders, pots and window boxes, because it reaches a height of only about twelve inches.

Persian Carpet zinnia grows twelve inches or more in height and produces 2 to 3-inch, fully double flowers in profusion over a long season. Each plant seems to produce flowers of different Oriental coloring. Small enough for porch and patio boxes, its even, bushy habit and attractive foliage adapt it to beds and borders, where it will provide a wealth of cutting material.

Zinnias originally came from Mexico, and the Mexican type has been noted for its variety of deep flower colorings. The smaller-flowered varieties are more useful for cutting, more prolific in bloom and borne on more attractive, bushy plants. Persian Carpet features even stronger plants, somewhat larger flowers and a richer, wider range of colors.

Globe Mixed phlox is a unique shape of annual phlox from Japan. The small, compact plant, about six inches in height and somewhat broader than tall, covers itself with one-inch blooms in a fair range of colors, predominantly red and white, but with some pink and salmon shades present. It is not a balanced color mixture, but it is striking and rich. The flowers of the globe or dome-shaped plant are not suitable

for cutting, but Globe phlox is especially good for pot plants, window boxes, rock and wall gardens, and edging and in low beds.

ALL-AMERICA VEGETABLE SELECTIONS FOR 1952.

Six new vegetables, all of which have shown superiority over others of their kind or have filled a new and desirable gardening purpose, have received All-America Selections medal awards for 1952.

Gold medals were won by an allpurpose bush snap bean, Wade, and a heat-resistant, loose-leaf lettuce, Salad Bowl. Silver medals went to America, a heat-tolerant spinach from Holland, and Allneck, a heavybearing Cushaw pumpkin with almost solid flesh.

Bronze medals were awarded to an early, sweet, bell pepper, Vinedale, regionally recommended for the north, and to a vigorous muskmelon, Golden Delight. Stringless Hort, a productive bush bean, received an honorable mention.

JAN DE GRAAF, internationally known lily hybridizer, who operates Oregon Bulb Farms, Gresham, Ore., is in Europe with Mrs. de Graaff for a 3-month lecture tour.

BORN to Mr. and Mrs. L. A. Dean (Bobby and Slick), of the Arp Nursery Co., Tyler, Tex., on Christmas day, was Betty Jamie Dean, their fourth child. A clever birth announcement followed the form of a notice of a patented AARS rose.



Persian Carpet Zinnia.

Proper Time for Pruning

Pruning is the cutting off of unwanted parts of a plant for corrective or maintenance purposes. By such practices the wood that is dead, diseased, weak or for other reasons no longer needed is removed or reduced so that additional energy will be available to those parts of the plant that best fulfill the requirements of a particular situation, according to a definition of the term "pruning" in an article on the subject in the September issue of Ohio Nursery Notes, prepared by Dr. L. C. Chadwick, department of horticulture, Ohio State University, Columbus. Pruning is also done early for corrective purposes, so that later heavy pruning, weak crotches and cavity treatment can be avoided. And pruning may be done to produce highly colored twigs, better flowers and better fruits.

The increase in vigor following pruning is more pronounced in old plants than in young ones, but the extent of the increase is dependent upon the time of year when the pruning is done. The increase in water supply to a more limited number of growing points; the increased efficiency in conduction of water and mineral nutrients; a change in the ratio of carbohydrates to nitrogen, so that the nitrogen has a higher ratio, and the reduction of flower buds, which conserves energy for the remaining growing points, are reasons for the increase in vigor after

Pruning is also a dwarfing process. The dwarfing is a direct result of the cutting away of wood, and it is further brought about by the reduction of the leaf surface, which in turn reduces the amount of food manufactured by the leaves and slows root growth. Top pruning may reduce root growth even more than it reduces top growth. Experiments have shown that small, unpruned fruit trees were thirty-three per cent larger than pruned trees after five years, and after ten years they were still seven per cent larger.

Proper Time to Prune.

The response of plants to pruning at different seasons of the year, dependent upon such factors as the amount of stored food in the plant, the movement of the stored food and the foliage retained for further photosynthesis, is an important factor to consider in pruning. It is believed that stored food in many

plants is at a maximum in the autumn, or about the time of leaf fall. Food accumulation, mostly in the form of starch, starts in midsummer and continues until mid-October or a little later. Sugars increase sharply from mid-October to the end of December, and a second peak in the accumulation of carbohydrates in the plant top occurs in March and April.

If it is desirable to prune with as little dwarfing resulting as possible, it would seem that pruning should be done in late winter, before mid-March in a climate such as that in Ohio. Pruning done before growth starts in the spring will result in a minimum loss of stored food. One-third to one-half of the nitrogen and large quantities of the carbohydrates are in the roots of fruit trees during the latter part of the dormant period, according to recent experiments.

Of course, not all pruning can be done at the most favorable time of the year, and not all of it should be. Pruning in the latter part of the dormant season should be reserved for especially valuable plants, tender plants, weak plants and plants slow to respond to pruning and wound healing. In these cases high food reserves at the time of pruning are important.

Weakening of plants by heavy fall pruning may result in injury during the winter following the pruning or in the second winter after pruning. Pruning causes a reduction of food reserves, delays maturity and inhibits normal root growth, and ample leaf surface during the autumn is imperative to preserving a plant stored through the winter. Fall pruning may cause weak growth the following spring and summer, resulting in a small accumulation of food and a tender condition the next winter. On the other hand, considerable pruning during late spring or early summer, after the flush of growth, will cause even greater dwarfing and may greatly delay or impair fall maturity.

Most nurserymen believe that the top of a plant should be reduced at the time of transplanting to balance the loss of roots. It would be better, however, to prune the top in accordance with the ability of the roots to function. If the plant is in good condition, is planted into good soil and will be cared for properly, it will not require so extensive top

pruning as a plant in poor condition, either because of poor storage conditions or drying out, or one that is poorly planted or maintained. Plants transplanted out of season will require more pruning, but as much wood as possible should be left on the plant after transplanting in order to permit the manufacture of ample food.

Pruning Shrubs.

Because of present labor conditions, nurserymen make little money on shrub pruning as a maintenance practice, and it is therefore important to select plants that are suited for their locations and thus require [Continued on page 67.]

TAX RETURN EXTENSION.

An extension was granted December 27, by the internal revenue bureau, to many corporations for filing income and excess profits tax returns.

The extension applies to corporations which have fiscal or taxable years ending between March 31 and December 1. All of these corporations now may file their returns as late as March 15.

Under original provisions, corporations with taxable years ending in November were due to file by February 15 and all the others covered by the December 27 order had to file by January 15.

The bureau said the extension was granted in view of the problems confronting corporate tax payers as the result of the new tax laws.

PAPER GOODS EASIER.

Easier delivery has been noted on packaging and paper products in recent weeks, with the exception of kraft wrapping and white papers. Such products as paperboard, paper boxes, corrugated board and paper, twine and gummed tape have all shown signs of decreased demand.

In the paper trade the reduction in demand is attributed to the lessened purchases, as ample inventories have been built up and retail purchases have not shown the volume of a year ago.

While deliveries have been easier, prices have generally remained firm and reductions slight. Kraft wrapping paper has resisted the trend because production facilities are still below the demand level for the product.



CHARLIE CHESTNUT

SOME HOT TIPS FOR THE VICE-PRES.



Mr. Peter Cascio, vice pres. of the convention: Dear Pete:

From time to time I have wrote to your man White in Washington and also to many of the various presidents of the convention, bringing up important matters and what did I ever get? Nothing! I see now I made a mistake. These members was already elected, so naturally they do not pay any attention but only say to the other members, "that man Chestnut is a blowhard," or some other unsavory remarks, the likes of which could not be put in printing for the other members to see. So I have decided to concentrate on you to get some action, otherwise you may be greatly surprised when it comes time for the convention next summer in Detroit. Instead of railroading you up to president of the convention, there might be a dark horse, and you might be left digging shrubbery back there in West Hartford instead of sitting at the speakers table. You might carry Maine and Connecticut, but I would carry the solid south and California. Think that over Pete. You would never get to go to the past presidents dinner or nothing like you been dreaming of. But there is still time to save yourself Pete if you will pay strict attention.

Here is some of the things I got in mind. Lets get the association back to something the members can get their teeth into. Take this business about Plant America. You are covering too much territory with that slogan. America runs all the way from the tip of Patagonia clean up to the Yukon. What do we care about the brothers in them far off places. Do we care about them nurseries in British Guinea, Labrador or Texas or any of them foreign places? Lets keep it in the USA. Plant United States!-There is no zip in that slogan, but its closer to it. My idea is to ride along on a good slogan already familiar to people. Everywhere we see and hear LSMFT. We could use that, but we would have to be careful to put in parenthesis that any resemblence to existing slogans is purely a coincidence. L. S. M. F. T. Let's Sell More Folks Trees. There you have got something. That is what the campaign is all about as I understand it.

It seems to me this Plant America program is getting out of hand. On your recent visit to the middle west you were bragging on how the members of the convention around your town got together and planted all the churches, city hall and school houses at some town there in Connecticut. If you go on with that deal you will have all the churches, schools, etc., hollering from coast to coast for free bushes. I hope that idea dont spread out here as me and Emil and the other members are working on the old system. During the past year me and Emil planted a new jail, a school house and three churches for money and not for free. They aint got onto the free stuff out this way yet and I hope they dont hear of it.

And another thing Pete I cant understand. You claim there is five nurseries in Hartford, averaging 40 years each in business. How does it come that none of you ever called on this town 12 miles or so away and sold these jobs in the regular way? An average salesman should be able to sell all those jobs you did for free in two afternoons. Before you work any new deals like that why dont you band together and hire a good old fashioned spellbinder salesman, give him a horse and buggy and a set of colored lithographs and start him off thru the hills of Connecticut. I aint the only one that is thinking along this line either. I asked Emil what he thought. "I aint in favor it," he says. So you see there is some opposition and it would be a good idea to bring it up at the convention before this thing gets spread around too much.

Another thing Pete, you are shooting over the heads of the folks out this way with this "picture window" business. The only place here in Riverbend is Mrs. Morse's. She used to call it her bay window years ago but lately she has taken to calling it her "picture window," and nothing to do but she had to call me and Emil over to put in a planting. We put a row of Russian olive clean across the window so now she is uptodate. Thats the only one turned up so far,

so you see we aint too wild on the idea out this way, Pete.

A more practical idea which Emil wants to bring up is the outhouse situation. Me and Emil made a survay here in town and thru the country last summer and here is what we found. Its a deplorable situation Pete, as you will see. We found that there was 81/2 outhouses for every ten families. Now you may wonder where the 1/2 comes in, but I can explain that there was one wealthy farmer that had two and at two places we sneaked around all over the place and didnt find any inside or out. Figure that out if you can. Pete. Now I know we cannot be too careful in the magazines, radio and other advertising on how we approach this proposition. I thought of cutting it down to just some short symbol like DRR, referring of course to detached rest room, maybe the committee can think up a better name. But anyway here is the sad situation, out of all the calls we made, one of these "buildings" had a cucumber vine and another had an old boxelder with three trunks leaning out. Otherwise no plantings at all. Emil figures if each one would have two honeysuckles, with a osage orange hedge leading up to the back door, the market has tremendous possibilities or as your fancy advertising men call "potential sales op-portunity." Lets get down to fundamentals, begin at the bottom and work up. Emil would be glad to work on the committee if you want him. He should be a good man to help out in the DRR promotion.

A lot of your stuff on sales promotion aint practical for a good per cent of customers we run up against, and I'll show you-what I mean Pete, as follows. Emil has been reading the circulars from time to time on "Climate Control." One day last fall he sent me out to make some calls to see if we could get any takers on climate control. "Tell em what it says in the circulars, Chas. and report back to me," he says. I started out east of town and called first on the Knutson farm. I went into my sales talk about the saving of 22½ per cent on fuel like you said. She lives right on top of a hill so

I figured she would be a good prospect. "We got a better deal then 221/4 per cent," she says. "Herman has got a deal that saves 50 per cent" she says. "Every fall he hauls up three or four loads of manure from the barn and banks it round the house four feet deep. That keeps out all the wind and in the spring he hauls it out to the fields so it dont cost us nothing," she says. "Why should I go to work and put in a row of honeysuckles when the wind whistles right thru them and when I can get Herman to bank up the house and save 50 per cent on coal," she says. I didnt have no argument for that, Pete, there wasnt a word in the circular to help me out, so I eased out as best I could. No sale.

The next call was at the Morse farm. That aint the Morses from the windmill factory I have wrote about at different times, in fact they aint even relations. Mrs. Morse invited me in right away and before I could get into my sales talk, Mr. Morse wanted to show me his new stoker. "The agent claimed this here stoker will save 33 per cent on fuel bills," Morse says. Then Morse started telling me about the new window strips they put in. "Saves 15 per cent on fuel bills, it says in the catalog," says Mr. Morse. Then Mrs. Morse spoke up, "Them new storm windows they told us down to the lumber yard, it said right in their book, will save 30 per cent on fuel bills."

You can see, Pete, I was being crowded down into a corner on my climate control sales talk but I was there to do business, so I went right ahead and read out of the circular where it will save 221/4 per cent if we put in a row of honeysuckles, so I told the Morses my story. Morse took out a stub pencil and started adding up. "Now Chas.", he says, "if that row of honevsuckles saves 221/4 per cent, lets see where we stand. Lets see now it adds up to 1001/4 per cent. According to that I will have more coal in the spring that when I started in the fall so there wouldnt be no place to put the coal I would save if I put in that row of honeysuckles." Mr. Morse is a great joker as you can see Pete, but he had me licked. I thumbed thru my papers, but couldn't find any dope on this particular situation, so I changed the subject and we talked about the price of hogs and other farm stuff. Before I went I traded him two Grimes Golden apples for a lot of burlap bags, so this stop was not a total loss after all.

From there I went down to Steamboat Fultons Billiard Parlor where I spent the rest of the p. m. playing pichnocle. I threw up the sponge on the whole climate control deal.

Now Pete, as I said in the beginning, its up to you if you will someday look back on your career as expresident of the convention or if you pay no attention to my suggestions and thereby become just another mill run nurseryman struggling along in the hills of Connecticut.

Yours truly, Chas. Chestnut

ROSE SOCIETY PRESIDENT.

Through an untiring devotion to his hobby of growing roses, C. Eugene Pfister has become a nationally recognized authority on roses and was honored recently by being elected president of the American Rose Society. Born at Kenton, O., in 1896, Mr. Pfister spent his boyhood at Columbus. He went to Chicago in 1911, at the age of 19 became associated with the printing business and is now executive vice-president of the Hankel-Pfister Printing Co.

It was in the period from 1932 to 1943, while living at Highland Park, Ill., that Mr. Pfister started rose gardening as a hobby and later began research on cultural practices of roses. He was commissioner of the park district of Highland Park, a member of the city plan commission and one of the founders of the Men's Garden Club of Highland Park. He became a director and later president of the Men's Garden Clubs of America and now is the chief rosarian and assistant chief horticulturist of that organization.



C. E. Pfister.

In 1943 the family moved to acreage west of Mundelein, Ill., where Mr. Pfister developed test rose gardens for hardiness in the midwest and began hybridizing roses. He helped to organize the Men's Garden Club of Libertyville and Mundelein and is a member of the board of directors. He assisted in the founding of the Chicago Regional Rose Society, of which he is an honorary life member, and is a member and director of the Men's Garden Club of the Chicago region. In 1945 he was elected to the board of directors of the American Rose Society and at the recent convention at Tulsa was elected president for 1952.

OKLAHOMA AWARDS.

From "fruit trees to frills" is a 4-word history of the nursery business in Oklahoma. So said C. E. Garee, long-time nurseryman of Noble, Okla., who was honored as one of the state's outstanding horticulturists during the 31st Oklahoma A. and M. College "Hort Show," held recently.

When Mr. Garee entered the nursery business fifty-two years ago, after building bridges in the territory, fruit trees were the most popular plants

he grew.

"Nowadays," he added, "most orders are for evergreens and other ornamentals. It is just now and then that someone wants a fruit tree."

A self-taught horticulturist, Mr. Garee, a native of Kansas, has always stressed the use of native plants. He was the first person to graft a scion of male Ilex decidua on female plants to insure fruit set. Interested in the hardiness of Quercus virginiana, the live oak, he found plants growing in Caddo county, Oklahoma. This remote area became a source of supply for oaks that were hardier than those from more southern areas.

Mr. Garee developed a technique of bud grafting Cupressus arizonica, Arizona cypress, on Thuja orientalis, Oriental arborvitae. This is one of few cases of crossing generic lines to make grafts. He also introduced the Garee juniper, a low, rounded form of Juniperus scopulorum.

In recognition of his achievements and contributions to Oklahoma horticulture, C. E. Garee was presented a beautiful achievement scroll and a bronze key by Charles Laughlin. an Oklahoma A. and M. College student from Chilocco, Okla.

Also honored by the A. and M. Horticulture Club was Tony Bresser, Muskogee, Okla., florist.

John A. Haight.

Realism and Self-Reliance

By Richard P. White, A. A. N. Executive Secretary

Neither a person nor an industry can be both dependent and independent. Those who are dependent are regulated and controlled in proportion to their dependency. The United States Supreme Court in 1942 put it this way: "It is hardly lack of due process for the government to regulate that which it subsidizes."

My thesis is built around dependency and independency of our industry in several important aspects. It is my belief that there are several things that this industry can do for itself if it will generate the will to action, which will go far in making us a self-reliant industry, free from control except those controls which are obviously in the public welfare and which are clearly defined by the law.

I think we can accept as a truism that the average businessman is constantly building for the future and that his reputation is his most valued possession. We can also agree that without freedom of initiative in a free society of enterprising people, the purpose of building for the future becomes void and meaningless. As a basic principle, it is also true that the actions of an individual in an industry are reflected throughout that industry. Our public relations collectively are due to the sum of the public relations of all members of the industry. It has been truly said that a bad apple in a barrel will spoil the whole barrel. Poor public relations and poor handling of consumers by a few members of the industry can negate the good that is being done by the overwhelming majority in the

Several years ago the Canadian Purchasor said: "The real test of a man's ethics comes in the twilight zone between what is clearly demanded by the test of honesty and what is required by that combination of feeling and judgment which is the mark of a good businessman. Merely being legal will not bring customers back. Trade depends upon good will, in which legality is only an ingredient."

The same can be said of an industry. The "Plant America" pro-

gram which this industry is supporting and which is building nationwide good will is being sabotaged in part by the poor business practices of



Richard P. White.

a few. A self-reliant industry is an industry that does for itself what a paternalistic government would like to do in the name of "public welfare."

1. Group Insurance Plan.

Raymond Howe, New York tax attorney, is reported to have said that, "Too many people are looking to government to supply benefits the employer might better be giving, since he pays for them anyway."

"The citizen who calls on government to supply him with security from the cradle to the grave, thereby encouraging government spending, is a danger to himself and his fellow citizens. If his pleas are successful he can lose his freedom and gain no security in exchange," said the president of the New York Curb Exchange.

The A. A. N. board of directors, realizing that this industry was confronted with a serious problem in securing and holding adequate help in competition with government-subsidized defense industries, embarked over a year ago on a program directed toward the supplying of certain benefits to the employees in the industry which would match the benefits that other industries were offering their employees. These benefits had to do with a program of group insurance and I am glad to

announce now that general wage regulation 19, recently issued, permits health and welfare plans over and above the wage increases previously authorized by the wage and salary stabilization agencies. Consequently, the American Association of Nurserymen is now ready to set up business with a life insurance and hospitalization benefit program of its own in cooperation with the John Hancock Life Insurance Co.

Briefly, the plan provides for life insurance coverage on three levels, for the employer, his executive and administrative personnel, and his other permanent employers. Furthermore, it provides for hospital benefits of \$8 per day, hospital expense up to \$120 for special hospital service for each illness and \$200 for surgical expense benefits which are the result of any nonoccupational accident or for any disease not covered under any workmen's compensation law or act. The trust agreement has already been drafted and a binding premium has already been paid to John Hancock Mutual Life Insurance Co., Boston, Mass., as the underwriting insurance company. Very shortly a statement of the benefits and costs will be distributed to all member firms in the A. A. N. This program of employee benefits will not be available to nonmembers.

This is a forward-looking program. It has been criticized for not including benefits for the dependents of our employees and also for not including sickness and accident benefits while not hospitalized. There are good reasons why both of these are not included in the A. A. N. plan. In the first place, dependency benefits would more than double the cost of the program. All insurance companies with which we conferred recommended that these dependency benefits not be included until the program gets under way and the first two types of coverages-life insurance and hospital benefits-become more or less routine in operation. We can then offer, as we plan to do, dependency benefits on a voluntary basis at the wish of the covered employee and at his expense.

The sickness and accident benefits have not been included because of the variability of laws of the several states and because of the fact that, on a national scale, the beneficiary

[Continued on page 19.]

An address by Dr. White presented January 4 at the convention of eastern nurserymen, Hotel New Yorker, New York.

SPRING, 1952-WHOLESALE PRICE LIST

ISAAC LANGLEY WILLIAMS

P. O. Box 352

EXETER, NEW HAMPSHIRE

We are pleased to offer for Spring, 1952, the following Hardy, Native Collected Ferns, Wild Flowers, Evergreens, Deciduous Trees and Shrubs, and Vines. All are first-quality material, dug and packed by experienced men.

Terms are cash with order from unknown customers. To those of approved credit, terms are net 30 days from date of shipment. Boxing extra at cost. We sell 50 of the same

size and variety at the 100 rate, 500 at the 1000 rate.

We do not have the Japanese Beetle.

Varieties marked (*) are suitable for rock gardens.

HARDY NATIVE FERNS

The ferns are one of our most useful groups of plants. They grow best in a shady location, but some will thrive in full sun. The following ferns are strong, clumpy plants and include the best varieties for general use. Varieties marked (†) will succeed in the open sun.

general use, varieties marked (T) will succeed in the o	pen sur	1.
Per 12	Per 100	Per 1000
*ADIANTUM pedatum, American Maidenhair\$2.00	\$10.00	\$ 30.00
*ASPLENIUM platyneuron, Ebony Spleenwort 2.50	15.00	
*trichomanes, Maidenhair Spleenwort 3.00		
†ATHYRIUM filixfeming, Lady Fern	10.00	80.00
pycnocarpon, Narrow Leaf Spleenwort 2.50	15.00	
thelypteroides. Silvery Spleenwort 2.00	12.00	100.00
BOTRYCHIUM virginianum, Rattlesnake Fern 2.50	15.00	
*CAMPTOSORUS rhizophyllus, Walking Fern 2.50	15.00	
*CYSTOPTERIS bulbifera, Berry Bladder Fern 2.00	10.00	80.00
*fragilis. Brittle Bladder Fern 2.50	12.00	
†*DENNSTAEDTIA punctilobula, Hay-scented Fern. 2.00	10.00	80.00
square-foot sods	25.00	200.00
DRYOPTERIS clintoniana, Clinton Wood Fern. 2.50	15.00	
cristata, Crested Wood Fern 2.50		90.00
dilatata, Mountain Wood Fern		
*disjuncta, Oak Fern 2.50		
goldiana, Goldie Wood Fern		
*hexagonoptera, Broad Beechiern		28.884
*marginalis. Leather Wood Fern		80.00
*noveboracensis. New York Fern		80.00
*phegopteris. Narrow Beech Fern 2.00		80.00
*spinulosa, Toothed Wood Fern		80.00
thelypteris, Marsh Fern 2.00		
TONOCLEA sensibilis, Sensitive Fern 2.00		80.00
OSMUNDA cinnamomea, Cinnamon Fern 2.50		100.00
†claytoniana, Interrupted Fern		100.00
regalis, Royal Fern		100.00
*POLYPODIUM vulgare, Common Polypody, sods 2.00		80.00
*POLYSTICHUM acrostichoides. Christmas Fern 2.00		80.00
brauni, Braun Holly Fern		26.64.6
†PTERETIS nodulosa, Ostrich Fern		80.00
†PTERIDIUM aquilinum, Bracken 2.50	12.00	100.00
† WOODSIA ilvensis. Rusty Woodsia 2.50	16.00	
*obtusa, Common Woodsia	16.00	00.00
WOODWARDIA virginica, Virginia Chain Fern 2.00	10.00	80.00

HARDY NATIVE ORCHIDS

	Per 12	Per 100	Per 1000
CALOPOGON pulchellus, Grass Pink Orchid		\$ 15.00	1000
large-flowering plants	2.00		\$100.00
2 to 4-crown clumps	4.00 6.00	30.00	****
pubescens, Common Yellow Ladyslipper, 1-crown plants	2.50	15.00	120.00
clumps with 2 to 3 crowns 4 to 8 flowering-crown clumps	5.00	40.00 90.00	****
reginae (spectabile), Showy Ladyslipper, 1-crown plants	2.50	15.00	120.00
clumps with 2 to 3 crowns	5.00	40.00	****
GOODYERA pubescens. Downy Rattlesnake Plantain	3.00	20.00	
repens, Creeping Rattlesnake Plantain HABENARIA ciliaris, Yellow Fringe-Orchid	6.00	25.00	****
fimbriata, Large Purple Fringe-Orchid lacera, Green Fringe-Orchid	5.00	35.00 25.00	
psycodes, Small Purple Fringe-Orchid	4.00	30.00	1111
ORCHIS spectabilis, Showy Orchid	3.00	20.00	****
SPIRANTHES cernua, Nodding Ladies Tresses	3.50	25.00	

TRANSPLANTED EVERGREENS

SBOPS belower Deleser Die	Per 100	Per 1000
ABIES balsamea. Balsam Fir. 4 to 6 ins., transplants, 1-yr.	\$12.00	\$100.00
THUJA occidentalis, Eastern Arborvitae, 12 to 18 ins., transplants, 2-yr. TSUGA canadensis, Canada Hemlock.	25.00	****
6 to 8 ins., transplants, 2-yr		100.00 180.00

HARDY NATIVE LILIES and BULBOUS PLANTS

	Per	Per	Per
ADICATMS winhallow Indian Isak in the Dulnit	12	\$10.00	\$ 80.00
*CONVALLARIA majalis, Lily-of-the-Valley, sods		20.00	
*DICENTRA canadensis, Squirrel Corn		10.00	****
*cucullaria, Dutchman's Breeches		10.00	
eximia, Fringed Bleedingheart	3.00	20.00	
*ERYTHRONIUM americanum, Common Fawnlily	2.00	10.00	80.00
*grandiflorum, Lambstongue Fawnlily		10.00	
LILIUM canadense, Canada Lily, extra-large	5.00	35.00	
first size		15.00	120.00
second size	1.50	8.00	70.00
coccineum, Red Canada Lily	3.50	20.00	
flavum, Yellow Canada Lily	2.50	15.00	120.00
*Philadelphicum, Wood Lily, extra-large	4.00	30.00	
first size	2.50	15.00	****
second size	2.00	10.00	
superbum, Turkscap Lily, extra-large	5.00	35.00	
strong, selected first size	2.50	15.00	120.00
medium first size	2.00	10.00	90.00
tigrinum, Tiger Lily	2.00	15.00	***
MERTENSIA virginica, Virginia Bluebells,			
mammoth roots	3.50	25.00	100.00
strong first size	2.50	15.00	120.00
medium-flowering size	2.00	8.00	70.00
*SANGUINARIA canadensis, Bloodroot, first size	1.50	8.00	70.00
*TRILLIUM erectum, Purple Trillium, first size	1.50	9.00	80.00
*grandiflorum, Snow Trillium, first size	1.50	8.00	70.00
recurvatum, Prairie Trillium, first size	2.00	10.00	80.00
sessile luteum, Yellow Toad Trillium, first size.	2.00	12.00	
*stylosum, Rose Trillium, first size	1.50	10.00	80.00
*undulatum, Painted Trillium, first size	1.30	10.00	00.00

HARDY NATIVE EVERGREENS

Collected	Un	277	13
All Evergreens will be carefully collected and	well no	tcked to	reach
you in good condition.	went be	CROW, II	s remeir
	Doc 10 1	Per 100 F	200 1000
4 to 8 ins			
8 to 12 ins.			60.00
12 to 18 ins	\$2.50	20.00	
18 to 24 ins	4.00	30.00	****
CHAMAECYPARIS thyoides.			****
White Cedar Falsecypress,			
6 to 12 ins		5.00	40.00
1 to 2 ft		10.00	80.00
2 to 3 ft		30.00	****
3 to 4 ft	6.00	50.00	
JUNIPERUS communis depressa.			
Oldfield Common Juniper,			
4 to 8 ins	0.00	8.00	70.00
8 to 12 ins		12.00	100.00
12 to 18 ins., B&B	. 15.00	120.00	
18 to 24 ins., B&B		160.00	* * * *
2 to 3 ft., B&B	. 23.00	200.00	
virginiana, Eastern Red Cedar, 4 to 8 ins.		8.00	
8 to 12 ins		12.00	
12 to 18 ins.		30.00	4444
PICEA rubens, Red Spruce,	. 4.00	30.00	
4 to 8 ins		8.00	
8 to 12 ins		10.00	
12 to 18 ins		20.00	
18 to 24 ins		30.00	
DINIIS sigida Ditab Dina			
1 to 2 ft	. 8.00		
2 to 3 ft., B&B	. 20.00		
TAXUS canadensis, Canada Yew,			
6 to 18 ins., rooted layers		7.00	60.00
THUJA occidentalis, Eastern Arborvitae,			
3 to 6 ins		3.00	20.00
6 to 12 ins		6.00	50.00
12 to 18 ins		15.00	120.00
18 to 24 ins	4.00	30.00	****
TSUGA canadensis, Canada Hemlock,		4.00	25.00
4 to 8 ins		7.00	20.00

SPRING, 1952, WHOLESALE PRICE LIST-ISAAC LANGLEY WILLIAMS

HARDY NATIVE WILD FLOWERS and GROUND COVER PLANTS

THE PERSON NAMED WATER		•	A TITE	and anound coagu LIVI		3
1		Per	Per	Per	Per	Per
ACCTAFA alba White Danahanna en		100	1000	12	100	1000
*ACTAEA alba, White Baneberry	.00 \$1	2.00	****	LYCHNIS floscuculi, Ragged Robin \$2.00	\$10.00	****
ANEMONE cylindrica, Candle Anemone 2	00 1	2.00	\$100.00	LYCOPODIUM complanatum flabelliforme.	10.00	#100 00
*quinquefolia, American Wood Anemone 2	00 1	0.00	80.00	Ground Cedar 2.00		
*ANEMONELLA thalictroides, Anemonella	50 1	5.00	00.00	obscurum, Ground Pine 2.00 *LYSIMACHIA nummularia, Moneywort, sods 2.00	15.00	
*AQUILEGIA canadensis, American Columbine 2	00 1	0.00	80.00	LYTHRUM salicaria, Purple Lythrum	12.00	
ARALIA hispida, Bristly Aralia	.00 1	0.00	80.00	*MAIONTHEMUM canadense.	12.00	9555
nudicaulis, Wild Sarsaparilla	.00 1	0.00	80.00	Canada Beadruby, sods	8.00	70.00
*ASARUM canadense, Canada Wild Ginger 2	.00 1	0.00	80.00	*MEDEOLA virginiana, Cucumber-Root Medeola 2.50	15.00	70.00
ASCLEPIAS tuberosa, Butterfly Milkweed 2		5.00	00100	MENTHA spicata. Spearmint	10.00	. 80.00
		0.00	80.00	*MITCHELLA repens. Partridgeberry, sods 2.00	10.00	80.00
lingriifolius, Savory Leaf Aster 2	.00 1	0.00	80.00	*MITELLA diphylla, Common Miterwort	15.00	
novaeangliae, New England Aster		0.00	80.00	MONARDA fistulosa, Wild Bergamot Beebalm 2.00	12.00	****
novibelgi. New York Aster	.00 1	0.00	80.00	*OXALIS acetosella, Woodsorrel Oxalis 3.00	20.00	****
BAPTISIA tinctoria. Yellow Wild-Indigo	.00 2	0.00		*PEDICULARIS canadensis, Early Pedicularis 2.00	12.00	
CAULOPHYLLUM thalictroides. Blue Cohosh 2		5.00		*PHLOX bifida, Tenpoint Phlox, clumps 2.50	15.00	
*CHIMAPHILA umbellata, Common Pipsissewa 2	.00 1	2.00		*divaricata, Sweetwilliam Phlox, clumps 2.50	15.00	120.00
CHIOGENES hispidula, Creeping Pearlberry 2	.50 1	8.00		PODOPHYLLUM peltatum, Common Mayapple 2.00	12.00	100.00
CIMICIFUGA racemosa, Cohosh Bugbane 2		8.00		POLYGALA paucifolia. Fringed Polygala, sods 2.50	18.00	
*CLAYTONIA virginica, Virginia Spring Beauty 2	.00 1	2.00	100.00	*POLYGONATUM biflorum, Small Solomonseal 2.00	10.00	80.00
*CLINTONIA borealis, Yellow Beadlily	50 1	5.00		commutatum, Great Solomonseal	18.00	
*COPTIS trifolia, Alaska Goldthread, sods 2	50 1	0.00	80.00	*POTENTILLA tridentata, Wineleaf Cinquefoil 3.00	20.00	150.00
*CORNUS canadensis, Bunchberry Dogwood,	EO 1	8.00		*PYROLA americana, American Pyrola 2.00	12.00	***
4-in. sods 2 strong roots 2	00 1	9.00	80.00	*chlorantha, Green Pyrola	12.00	
CORYDALIS sempervirens, Pale Corydalis, 2	50 1	5.00		*elliptica, Waxflower Pyrola	12.00	100.00
*DALIRARDA semens Starviolet Dalibarda sode 2	50 1	5.00	++**	RUDBECKIA hirta, Black-eyed Susan	12.00	100.00
*DALIBARDA repens. Starviolet Dalibarda, sods	50 1	5.00		SAPONARIA officinglis, Bouncing-Bet	12.00	***
*DODECATHEON meadia, Common Shootingstar 2.	00 1	2.00	100.00	SAXIFRAGA pennsylvanica,	14.00	****
		0.00		Pennsylvania Saxifrage 2.00	10.00	****
large sods		0.00		*virginiensis, Virginia Saxifrage	10.00	****
EPILOBIUM angustifolium, Fireweed 2.	50 15	5.00			40.00	****
EUPATORIUM perfoliatum, Boneset		0.00	80.00	SISYRINCHIUM angustifolium.		
purpureum, Bluestem Joe-Pye-Weed	00 10	0.00	80.00		15.00	
rugosum, White Snakeroot	50 15	5.00	120.00	SMILACINA racemosa. Feather Solomonplume 2.00	10.00	80.00
	00 3	5.00	****	SOLIDAGO sempervirens. Seaside Goldenrod 2.50	15.00	
*GAULTHERIA procumbens.				THALICTRUM dioicum, Early Meadowrue 2.50	15.00	-1122
Checkerberry Wintergreen, sods	00 12	2.00	100.00	polygamum, Tall Meadowrue	10.00	90.00
		5.00			10.00	90.00
linearis, Narrow Leaf Gentian		5.00	ma aa	TRADESCANTIA virginiana. Virginia Spiderwort 2.00	10.00	80.00
		5.00	70.00	TRIENTALIS borealis, American Starflower 2.00	10.00	₩0.00
*robertianum, Herb Robert Geranium		8.00	70.00	*UVULARIA grandiflora, Big Merrybells 2.50	16.00	0.000
HEMEROCALLIS fulva, Tawny Day Lily. 2.		2.00			12.00	8 4 4 5
*HEPATICA acutiloba, Sharplobe Hepatica,	00 14	2.00			20.00	****
1 to 2-bud plants	00 10	0.00	80.00		10.00	80.00
3 to 6-bud plants	50 15	5.00	120.00	*VINCA minor, Common Periwinkle, clumps	8.00	70.00
*americana, Roundlobe Hepatica,	00 00	2100	200.00	VIOLA blanda, Sweet White Violet	10.00	80.00
1 to 2-bud plants	00 10	0.00	80.00	*canadensis, Canada Violet	12.00	100.00
3 to 6-bud plants	50 15	5.00	120.00		10.00	80.00
*HOUSTONIA caerulea. Common Bluets, sods 2.	00 10	0.00	80.00		10.00	80.00
HYPOXIS hirsuta, Common Goldstargrass 3.	00 20	0.00		fimbriatula, Fringed Violet	10.00	80.00
*IRIS cristata, Crested Iris		3.00	****	*lanceolata, Lanceleaf Violet	10.00	80.00
LESPEDEZA capitata, Roundhead Lespedeza 2.		0.00		*pedata lineariloba. Lilac Birdsfoot Violet.		
LIATRIS pycnostachya, Kansas Gayfeather 2.	00 10	0.00			12.00	100.00
scariosa, Tall Gayfeather	00 10	0.00		*pedata (bicolor), Two-color Birdstoot Violet,		
*LINARIA vulgaris, Butter-and-eggs, Toadflax 2.		0.00			15.00	120.00
*LINNAEA americana. American Twinflower 2.		.00	120.00		10.00	80.00
LOBELIA cardinalis, Cardinal Flower, large 2.		00.1	80.00	*rotundifolia. Roundleaf Violet 2.00	10.00	80.00
medium-flowering size	30 7	.00	60.00			

HARDY NATIVE TREES and SHRUBS

		Colle	lected	
ACER pensylvanicum, Striped Maple, Per 10	Per 100	Per 1000	lutes, Yellow Birch. Per 10 Per 100 Per	r 1000
6 to 12 ins	. \$ 10.00	\$ 90.00	1 to 2 ft \$ 6.00 \$	50.00
1 to 2 ft	15.00	120.00	2 to 3 ft	70.00
2 to 4 ft.	30.00		3 to 4 ft	
rubrum, Red Maple,			4 to 6 ft 5.00 35.00	
1 to 2 ft	6.00	50.00	6 to 8 ft	
2 to 3 ft	8.00	70.00	8 to 10 ft	
3 to 4 ft	12.00	100.00	papyrifera, Paper Birch,	
4 to 6 ft			6 to 12 ins	30.00
6 to 8 ft		****		50.00
8 to 10 ft. 16.0		****		70.00
10 to 12 ft., 1-in. cal				200.00
saccharum, Sugar Maple,	0 170.00			300.00
1 to 2 ft	6.00	50.00	6 to 8 ft. 12.00 100.00	
2 to 3 ft.	12.00	100.00	8 to 10 ft	2 × × ×
3 to 4 ft	30.00	250.00	10 to 12 ft. 25.00 200.00	****
4 to 6 ft	60.00	500.00	12 to 14 ft	**! 5
6 to 8 ft. 15.0			BETULA populifolia, Gray Birch.	2112
8 to 10 ft. 20.0		4911		30.00
				40.00
10 to 12 ft 25.0	0 20.00	4.4.4.4		25.00
spicatum, Mountain Maple,	20.00		3 to 4 ft	
1 to 3 ft	40.00			347.5
	40.00	4000		1115
ALNUS rugosa, Hazel Alder,				4.0.0
2 to 3 ft., clumps	0 35.00			****
3 to 4 ft., clumps 6.0	0 50.00	*****	CARPINUS caroliniana. American Hornbeam,	90.00
AMELANCHIER canadensis, Shadblow Serviceberry,				
1 to 3 ft	. 15.00			
2 to 3 ft., clumps 6.0				1111
3 to 4 ft., clumps	0 70.00		CARYA (Hicoria) ovata, Shagbark Hickory,	
4 to 5 ft., clumps			1 to 3 ft	****
	0 100.00		3 to 5 ft 8.00 60.00	***
ARONIA melanocarpa, Black Chokeberry,			CEPHALANTHUS occidentalis, Common Buttonbush,	90.00
1 to 2 ft	8.00	70.00		70.00
2 to 3 ft., clumps	0 40.00		2 to 3 ft., clumps	+1.00
3 to 4 ft., clumps	0 60.00		CHAMAEDAPHNE calyculata, Leather Leaf,	00.00
DESCRIPTION OF THE PARTY OF THE			F 00 40 00	60.00
BETULA lenta, Sweet Birch,	0.00	20.00	clumps 5.00 40.00	* * 7.7
1 to 2 ft	6.00	50.00	CLETHRA alnifolia, Summersweet Clethra,	00.00
2 to 3 ft	8.00	70.00		60.00
3 to 4 ft		****	12 to 18 ins., clumps, heavy	****
4 to 6 ft			18 to 24 ins., clumps, heavy	
6 to 8 ft		2525	2 to 3 ft., clumps, heavy	
8 to 10 ft	120.00		3 to 4 ft., clumps, heavy	

SPRING, 1952, WHOLESALE PRICE LIST—ISAAC LANGLEY WILLIAMS

			Per 1000	and SHRUBS (Concluded) Per 10.1	Dec 100 1	Per 100
6 to 18 ins.	Let 10	\$ 7.00	\$ 60.00	PRUNUS pensylvanica. Pin Cherry. 1 to 2 ft. 2 to 3 ft. 3 to 4 ft. 4 to 6 ft.		\$ 5.00	\$ 40.0
6 to 18 ins. 18 to 24 ins., clumps. CORNUS alternifolia, Pagoda Dogwood,	. \$ 4.00	30.00	****	2 to 3 ft		6.00	70.0
		13.00		4 to 6 ft	\$ 3.00	20.00 40.00	
2 to 4 ft. florida, Flowering Dogwood, 6 to 12 ins.	0.00			6 to 8 ftvirginiana, Common Chokecherry,	. 3.00	40.00	
1 10 2 11		8.00		1 to 2 ft. 2 to 2 ft. 2 to 4 ft.	4.50	30.00	
2 to 3 ft	4.00	30.00	250.00	QUERCUS alba, White Oak,	2.00		
8 to 4 ft	9.00	80.00		2 to 4 ft	. 3.00 . 5.00	20.00 40.00	
4 to 6 ft. 6 to 8 ft. 8 to 10 ft. racemesa, Gray Dogwood,	15.00	125.00	****	2 to 4 ft. bicolor, Swamp White Oak, 1 to 3 ft.	6.00	50.00	
racemosa, Gray Dogwood,	23.00	200.00		Doregis, Northern Red Odk,			
2 to 3 ft. clumps	4.00	7.00		6 to 12 ins		30.00	
3 to 4 ft., clumps. CORYLUS americana. American Filbert,	. 5.00			3 to 4 ft	. 5.00	35.00	
1 to 3 ft.		7.00	60.00	4 to 6 ft	10.00	60.00 80.00	
1 to 3 ft. 2 to 3 ft., clumps 3 to 4 ft., clumps	4.00	30.00		RHODODENDRON carolinianum. Carolina Rhododendron.			
				6 4- 10 1	. 2.50	20.00	180.0
1 to 3 ft 2 to 4 ft., clumps.	5.00	40.00	50.00	canadense, Rhodora, 1 to 3 ft. 12 to 18 ins., clumps, B&B. 18 to 24 ins., clumps, B&B. catawbiense, Catawba Rhododendron, 6 to 12 ins.		10.00	90.0
2 to 4 ft., clumps. CRATAEGUS intricata. Thicket Hawthorn,				12 to 18 ins., clumps, B&B	12.00	100.00	
1 to 3 ft. 3 to 5 ft. DIERVILLA lonicera, Dwarf Bush Honeysuckle	6.00	25.00 50.00		catawbiense, Catawba Rhododendron,	. 20.00	150.00	
DIERVILLA lonicera. Dwarf Bush Honeysuckle DIRCA palustris. Atlantic Leatherwood.		6.00	50.00	6 to 12 ins	2.50	20.00	180.0
6 to 17 inc		10.00		maximum, Rosebay Rhododendron, 6 to 12 ins. RHUS copallina, Flameleaf Sumac,	2.50	18.00	150.0
1 to 2 ft. 2 to 3 ft. branched 3 to 5 ft. branched	4.00	15.00 30.00				10.00	
3 to 5 ft., branched	6.00	50.00		1½ to 3 ft		20.00	
6 to 12 ins		6.00	50.00	11/2 to 3 ft. glabra. Smooth Sumac. 1 to 2 ft. 2 to 3 ft.		7.00	60.0
1 to 2 ft		8.00	70.00	2 to 3 ft		10.00 25.00	90.0
4 to 6 ft		75.00	****	3 to 4 ft., stocky typhing, Staghorn Sumac,			***
FRAXINUS americana, White Ash, 1 to 2 ft		6.00	50.00	6 to 18 ins. 1 to 2 ft.		5.00	40.0 50.0
GAYLUSSACIA baccata, Black Huckleberry		9.00	80.00	2 to 3 ft. 3 to 4 ft., branched. RUBUS odoratus, Fragrant Thimbleberry,		12.00	90.0
sqit. sods	. 5.00	30.00	250.00	RUBUS odoratus, Fragrant Thimbleberry,		25.00	* * *
AMAMELIS virginiana, Common Witchhazel, 6 to 18 ins		15.00		1 to 3 ft		18.00	* * *
Z to 3 ft., clumps	5.00	40.00	****			10.00	90.0
3 to 4 ft., clumps	8.00	50.00 60.00	****	pubens, Scarlet Elder, 1 to 2 ft. SORBUS americana, American Mountain Ash,		25.00	
LEX verticillata, Common Winterberry				SORBUS americana, American Mountain Ash,			* * *
l to 2 ft. Is to 24 ins., clumps.	4.00	30.00	60.00	SPIRAEA latifolia, Broadleaf Meadowsweet Spirea	4.00	25.00	***
2 to 3 ft, clumps 3 to 4 ft, clumps	5.00	40.00	****	6 to 18 ins. 2 to 3 ft., clumps. tomentosa, Hardhack Spirea,	4.00	7.00	60.00
4 to 6 ft., clumps	10.00	50.00	****	tomentosa, Hardhack Spirea,	4.00	30.00	* * * *
KALMIA angustifolia, Lambkill Kalmia,		00.00		6 to 18 ins	4.00	7.00	60.00
6 to 18 inssqft sods	5.00	7.00	60.00 250.00	6 to 18 ins. 2 to 3 ft., clumps SYRINGA vulgaris. Common Lilac, 1 to 2 ft. 2 to 3 ft.	4.00	30.00	* > 1
sqft. sods latifolia, Mountain Laurel Kalmia,	0.00			1 to 2 ft 2 to 3 ft	2.00	7.00 12.00	100.00
18 to 24 ins., B&B.	20.00	18.00	150.00	5 10 4 Harris Ha	5.00	40.00	
6 to 18 ins. 18 to 24 ins. B&B 2 to 2½ tt. B&B 2½ to 3 tt. B&B 3 to 4 tt. B&B politique, Bor Kelming	25.00	225.00		VACCINIUM angustifolium (pensylvanicum), Lowbush Blueberry,			
3 to 4 ft., B&B	50.00	300.00	****	b to IZ ins	4 00	10.00	90.00
pendena bog kamina i i i i i i i i i i i i i i i i i i	3.00	25.00	****	sqft. sods		30.00	250.00
INDERA benzoin, Spicebush,		8.00	****	6 to 12 insclumps 18 to 24 insclumps 2 to 3 ft., heavy clumps 3 to 4 ft., heavy clumps 4 to 5 ft., heavy clumps VIBURNUM acerifolium, Mapleleaf Viburnum,	8.00	12.00 70.00	100.00
Z to 4 ft., clumps	5.00	40.00		2 to 3 ft., heavy clumps	10.00	90.00	****
YONIA ligustring. He-Huckleberry. 2 to 4 ft., clumps	7.00	60.00		4 to 5 ft. heavy clumps	25.00	120.00 175.00	***
AYRICA gale, Sweetgale, Bay Rum,	. 7.00	00.00	* < < <	VIBURNUM acerifolium, Mapleleaf Viburnum,			
1 to 3 tt.	6.00	8.00	70.00	6 to 18 ins	6.00	8.00 50.00	70.00
2 to 3 ft., clumps. IEMOPANTHUS mucronata, Mountain Holly,		50.00	***			8.00	70.00
1 to 3 ft	0.00	10.00		2 to 3 ft., clumps. cassinoides, Witherod Viburnum,	6.00	50.00	70.00
2 to 3 ft., clumps. 3 to 4 ft., clumps.	6.00	50.00 70.00		cassinoides, Witherod Viburnum,		7.00	60.00
IYSSA sylvatica, Black Tupelo, 1 to 2 ft.				1 to 2 ft	3.00	25.00	225.00
STRYA virginiana. American Hop Hornbeam,	5.00	40.00	***	2 to 3 ft., clumps.	4.00 5.00	30.00 40.00	****
5 to 18 ins		10.00	90.00	3 to 4 ft., clumps	6.00	50.00	****
1½ to 3 ft	2.50	15.00 40.00	120.00	dentatum, Arrowwood Viburnum.	10.00	80.00	****
OTENTILLA fruticosa, Bush Cinquefoil.		40.00	****	1 to 2 ft. 2 to 3 ft., clumps	4.00	7.00	60.00
1 to 2 ft	8 × 8	20.00		3 to 4 ft clumps	6.00	50.00	
				lentago, Nannyberry Viburnum.	7.50	65.00	* * > >
HARDY NATIVE AQ	UAT	FIC		4 to 5 ft, clumps lentage. Nannyberry Viburnum, 1 to 2 ft. 2 to 3 ft., clumps	4.60	10.00	80.00
and BOG PLANT				2 to 3 ft., clumps 3 to 4 ft., clumps 4 to 5 ft., clumps 5 to 7 ft., clumps	4.50 5.50	35.00 40.00	****
una Dod FLAM		Per	Per	4 to 5 ft., clumps	6.50 7.50	55.00	
CORUE calamas Davis C			1000	v id r in ciampanininininininininini	7.30	65.00	
SCLEPIAS incarnata, Swamp Milkweed	2.00	\$10.00	80.00	***************************************		~	
ALLA palustris, Wild Calla	2.00	12.00	100.00	HARDY NATIVE V	N P	5	
	2.00	12.00	100.00	APIOS (tuberosa) gmericana.			
HELONE glabra, White Turtlehead	4.30		80.00	American Potatobean *ARCTOSTAPHYLOS uva-ursi. Barberry.	\$1.50	\$ 8.00 \$	70.00
HELONE glabra, White Turtlehead IIS prismatica, Cubeseed Iris	2.00	10.00	80.00				
HELONE glabra. White Turtlehead IIS prismatica, Cubeseed Iris. versicolor. Blue Flag Iris. IMULUS ringens. Allegany Monkeyflower	2.00 2.00 2.50	10.00 10.00 15.00	80.00	rooted layers			
HELONE glabra. White Turtlehead 115 prismatica, Cubeseed Iris. versicolor. Blue Flag Iris. IIMULUS ringens. Allegany Monkeyflower. UPHAR advena, Spatterdock Cowlily. YMPHARA edorata. American Waterlily.	2.00 2.00 2.50 2.50	10.00 10.00 15.00 15.00	****	rooted layers	2.50	10.00	80.00
CORUS calamus, Drug Sweetlag SCLEPIAS incarnata, Swamp Milkweed ALLA palustris, Wild Calla ALTHA palustris, Common Marsh Marigold HELONE glabra, White Turtlehead RIS prismatica, Cubeseed Iris. versicolor, Blue Flag Iris. HIMULUS ringens, Allegany Monkeyflower. HIMULUS ringens, Allegany Monkeyflower. HYMPHAR advena, Spatterdock Cowilly HYMPHAEA edorata, American Waterlily ONTEDERIA cordata, Pickerelweed.	2.00 2.00 2.50 2.50 2.50 2.00	10.00 10.00 15.00 15.00 15.00	00.00	rooted layers	2.50	10.00 5.00 6.00	80.00 40.00 50.00
HELONE glabra. White Turtlehead RIS prismatica, Cubeseed Iris. versicolor. Blue Flag Iris. IIMULUS ringens. Allegany Monkeyflower IUPHAR advena. Spatterdock Cowlily. YMPHAEA edorata. American Waterlily ONTEDERIA cordata. Pickerelweed. AGITTARIA latifolia, Common Arrowhead ARRACENIA purpurea. Common Pitcherland	2.00 2.00 2.50 2.50 2.50 2.50 2.50	10.00 10.00 15.00 15.00 15.00 12.00 15.00		rooted layers	2.50	5.00 6.00 12.00	80.00 40.00 50.00 100.00
HELONE glabra. White Turtlehead NS prismatica, Cubeseed Iris. versicolor. Blue Flag Iris. IIMULUS ringens. Allegany Monkeyflower UPHAR advena. Spatterdock Cowlily. YMPHAEA edorata. American Waterlily ONTEDERIA cordata. Pickerelweed. AGITTARIA latifolia, Common Arrowhead ARRACENIA purpurea. Common Pitcherplant HALICTRUM polygamum. Tall Meadowrue. YPHA angustifolia. Narrowleaf Cattail latifolia, Common Cattail	2.00 2.00 2.50 2.50 2.50 2.50 2.50 2.50	10.00 10.00 15.00 15.00 15.00 12.00 15.00 12.00 10.00 18.00		rooted layers CELASTRUS scandens. American Bittersweet, 6 to 18 ins. 1½ to 3 ft. 3 to 4 ft. CLEMATIS virginiana. Virgin's Bower, large. LONICERA japonica halliana. Hall's Japanese Honeysuckle. sempervirens. Trumpet Honeysuckle.	2.50	10.00 5.00 6.00	80.00 40.00 50.00

REALISM AND SELF-RELIANCE.

[Continued from page 15.]

is so far removed from the administrator of the program that there is no way of policing payments or of investigating claims. Sickness and accident benefit programs written for individual companies, or on a group basis up to state level, can be readily policed. We were advised not to include sickness and accident benefits on this account, as it might wreck the entire program, and at great expense to the A. A. N.

This insurance program, self-administered by the A. A. N., will provide an opportunity to the members of the A. A. N. to offer to their permanent employees the same protection to themselves and, we hope, later on to their families, that other industries have been able to offer to their employees. This is a program, in my judgment, which should be well supported by the smaller members of the A. A. N. with one to 24 employees who cannot hope to get group insurance coverage at any price for their employees.

Unfortunately, the state laws of Ohio, Oklahoma and Texas will not permit our members in those three states to participate in this plan. With the exception of these three states, the nursery industry will have embarked on a self-administered program of employee benefits, providing security against the sudden impact of unexpected medical expenses. If you as an employer participate in this plan, there will be less and less pressure from the socialistic-minded for a government-controlled program of employee security or from the employee himself who is concerned with the security of his earnings and of his family.

2. Transportation.

The costs of distributing commodities in our present-day economy are getting out of hand. Express rates have gone up and up and up since the war, and the service has deteriorated progressively. The same can be said in lesser degree of freight service. The rates have gone up and up, but the service has not deteriorated to the low point to which the express service has deteriorated. Both services are getting out of reach of the nurseryman who is shipping a light density commodity over long distances at minimum carload weights which he cannot hope to meet.

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38

CHOICE LINERS FOR SPRING, 1952

	HUIUL LINL	K 2	, .		R JPRITUS		
	10	O rate I	000 rate			100 rate	1000 re
		each	each			each	each
200	Acer dissectum atropurpureum, pot grafts	0.75		1000	Euonymus alatus, 2-yr. T., 6 ins. up	.\$0.15	\$0.14
2000	Acer negundo, 2-yr, S	.07	\$0.06	1000	Euonymus radicans, 2-yr. T., 6 to 8 ins	25	.20
2000	Acer palmatum atropurpureum, pot grafts	.75			Euonymus radicans, TT		.30
20,000	Althaea, I-yr. S	.051/2	.031/2		Euonymus radicans carrierei, TT		.30
	Ampelopsis brevipedunculata, 1-yr. S., row run	.041/2	.04	1000	Euonymus radicans coloratus, 2-yr, T.,		
1500	Ampelopsis heterophylla, 2-yr. S., 12 to 18 ins.	.18			10 to 12 ins	35	.30
3000	Ampelopsis veitchi, I-yr., No. I S	.05	.041/2	1000	Euonymus radicans, variegated, TT	35	.30
1000	Ampelopsis veitchi, I-yr., heavy,			5000	Euonymus radicans vegetus, 2-yr. T., 6 to 8 in:	25	.20
	12 to 18 ins	.25	.24	1500	Euonymus radicans vegetus, TT	40	.35
	Aristolochia sipho, I-yr. S	.15	* * *	700	Forsythia fortunei, I-yr. C., row run	05	.04
	Aronia arbutifolia, I-yr. S, 2 to 4 ins	.05	.04	750	Fraxinus americana, I-yr. S., row run	05	.04
	Aronia arbutifolia, 1-yr. S., 4 to 6 ins	.06	.05		Hydrangea P.G., layers		.05
	Aronia melanocarpa, I-yr. S., 4 to 6 ins	.05	.04		Hydrangea P.G., 2-yr. TT., 12 to 15 ins		.20
	Azalea mollis, 2-yr. T., 6 to 9 ins	.30			Ilex crenata, 1-yr. T)
	Azalea mollis, 2-yr. T., 9 to 12 ins	.40	* * *		Ilex crenata convexa, I-yr. T		
	Azalea mollis, 2-yr. T., 12 to 15 ins	.50	***		Ilex glabra, I-yr. T		***
	Berberis thunbergi, 2-yr. S., row run	.05	.041/2		Ilex verticillata, I-yr. S., row run		.04
	Berberis thunbergi, 2-yr. S., 6 to 9 ins	.05	.04		Ilex verticillata, 1-yr. S., 4 to 8 ins	07	.06
	Berberis thunbergi, 2-yr. S., 9 to 12 ins	.06	.05	1000	Juniperus depressa plumosa, 4-yr. TT.,		- 10
	Berberis thunbergi, 2-yr. S., 12 to 15 ins	.07	.06		10 to 12 ins	50	.40
5000	Berberis thunbergi atropurpurea,				Juniperus hibernica, 4-yr. T., 12 to 18 ins		***
1500	2-yr. S., 9 to 12 ins	.08	.071/2		Juniperus hibernica, TT., 18 to 24 ins		.40
	Callicarpa japonica, 2-yr. TT., 12 to 15 ins	.20	.15		Juniperus sabina, 4-yr. TT., 8 to 12 ins		.40
	Calycanthus floridus, 1-yr. S., 4 to 6 ins	.08	.071/2		Juniperus suecica, TT., 18 to 24 ins		.40
	Cedrus atlantica glauca, pot grafts	.60	031/		Leucothoe catesbaei, 3-yr. TT		.30
	Celastrus orbiculata, I-yr. S., row run	.04	.031/2		Ligustrum ibota, 6 to 9 ins		.05
	Chamaecyparis filifera, TT., 12 to 15 ins	.40	* * *		Magnolia soulangeana, pot grafts		***
	Chamaecyperis filifera aurea, TT., 10 to 12 ins.	.40	02		Magnolia soulangeana, 1-yr. grafts		075
	Chamaecyparis obtusa, 2-yr. S., 3 to 5 ins	.031/2	.03		Myrica pensylvanica, I-yr. S., 6 to 8 ins		.07
	Chamaecyparis obtusa crippsi, pot grafts Chamaecyparis obtusa gracilis, pot grafts	.40			Philadelphus lemoinei, C., 6 to 9 ins		07
		.40	1.4		Philadelphus virginalis, C., row run		.07
	Chamaecyperis plumosa, 1-yr, T	.15	.14		Photinia villosa, 1-yr. S., 2 to 21/2 ft		.07
	Chamaecyparis plumosa aurea, 1-yr. T	.15	.14		Physocarpus monogynus, T., 9 to 12 ins		
	Cornus alba sibirica, I-yr. C., row run	.05	.041/2		Picea canadensis densata, 4-yr. T., 4 to 8 ins Picea excelsa, 3-yr. T., 4 to 8 ins		.09
	Cornus florida, 1-yr. S., 10 to 12 ins	.05	.04/2		Picea excelsa, 3-yr. TT		.25
	Cornus florida, 1-yr. S., 12 to 15 ins	.06	.05		Picea moerheimi, pot grafts		
	Cornus florida, 1-yr. S., 15 to 18 ins	.07	.06		Picea pungens, 3-yr. T., 3 to 5 ins		.09
5000	Cornus florida rubra, pot grafts	.45	.421/2		Pieris japonica, 2-yr. TT		.25
2000	Cornus kousa, I-yr. S	.051/2	.041/2		Pieris japonica, 3-yr. TT		.35
	Cydonia japonica, I-yr. S	.041/2	.031/2		Pinus densiflora, 2-yr. S., 3 to 7 ins		.03
	Cydonia japonica, 2-yr. T	.081/2	.071/2		Pinus densiflora, 3-yr, T., 5 to 10 ins		.09
	Deutzia gracilis, C., 6 to 9 ins	.15	.0172		Pinus mughus, 2-yr. S., 11/2 to 3 ins		.04
	Deutzia lemoinei, C., 6 to 9 ins	.15			Pinus mughus, 3-yr. T., 2 to 4 ins		.09
	Enkianthus campanulatus, 3-yr, T	.50			Pinus mughus, 4-yr. T., 3 to 6 ins		.12
	Euonymus alatus, 2-yr. T., 3 to 6 ins	.12	.10		Pinus nigra austriaca, 2-yr. S., 2 to 4 ins		.05

the immediate postwar rate and, consequently, the pinch is on the mailorder members of the industry as well as all others. We cannot look for any relief in 1952, nor can we expect any improved service, in my judgment.

This situation is forcing the industry in two definite directions. (1) It is having a tendency to localize business within a trade territory which is attainable by one's own trucks or by a complete change in merchandising methods. (2) It is forcing certain concerns into fleet ownership of trucks, making deliveries direct from the nursery to their outlets, or into a system of leasing trucks, which is increasing rapidly in scope and usage.

In other words, every increased freight rate and every increase in the rate of express transportation are forcing more and more of our commodity away from these two proverbial systems of distribution.

This is a trend which the industry must be prepared to meet in an ever-

increasing degree. For some months, the railroads have been under the nominal control of the United States government, necessitated by the threat of a strike of the four brotherhoods. Since the express company is now owned by the railroads, this type of service is also, for all practical purposes, under the same control. This tendency toward government control and regulation of the transportation utilities of the country is something which every individual should consider with this question in mind: Is our transportation system the first big industry to become nationalized, as so many industries have become nationalized in England? The answer could well be an affirmative one. This country cannot get along without its intricate transportation system as represented by the railroads, either in peace or in war. If they are not in a position to operate profitably for the millions of investors in railroad stocks, then the only alternative would be to submit to government control and



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Rhododendrons Azaleas Perennials, Roses All Nursery Items

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10	0 1 - 1	000 rafe		100	- 1000
	each	each		each	e 1000 rate
9000 Pinus strobus, 2-yr. S., 2 to 4 ins		\$0.041/2	2000 Taxus media, Halloran st		each
9000 Pinus strobus, 4-yr. T., 4 to 8 ins		.09		\$0.30	\$0.25
4000 Pinus strobus, 5-yr. T., 8 to 16 ins	.12	.10	700 Texus media, Halloran st		\$0.25
1500 Pinus sylvestris, 3-yr. T., 4 to 9 ins	.09	.08			.45
800 Pinus thunbergi, 2-yr. S., 2 to 5 ins.	.05	.041/2	500 Taxus media, Halloran st		
3000 Pseudotsuga douglasi, 3-yr. S., 3 to 6 ins	.07	.06	100 Taxus intermedia (Uprig		* * *
8000 Pseudotsuga douglasi, 3-yr. T., 3 to 6 ins	.12	.10	6-yr. TT., 18 to 24 ins		
1000 Pseudotsuga douglasi, TT., 6 to 8 ins	.20		1000 Taxus media hatfieldi, 2-		
5000 Rhododendron, named (all red), pot grafts	.90	* * *	500 Taxus media hicksi, 2-yr.		.25
Named varieties, 75 per cent red, pot grafts	.75	* * *	1400 Taxus media hicksi, 4-yr.		
800 Ribes alpinum, T., 12 to 15 ins	.18	.15	200 Taxus media hicksi, 5-yr.		***
2000 Rosa rugosa, I-yr. S	.051/2	.041/2	1000 Taxus media microphylla,		.45
1500 Rosa rugosa, T., 6 to 8 ins		.071/2	3000 Taxus mooni columnaris,		.30
1500 Rosa rugosa, T., 9 to 12 ins		.11	1000 Taxus mooni columnaris,		.45
300 Sorbus aucuparia, whips, 3 to 4 ft	.50		800 Thuje occidentalis colum		.45
300 Sorbus aucuparis, whips, 5 to 6 ft	.75		1000 Thuja occ. douglasi (spir		.40
1000 Spiraea froebeli, T., 6 to 9 ins	.09	.08	1500 Thuja occ. globosa, TT.,		.45
1000 Styrax japonica, 1-yr. S., 12 to 15 ins	.08	.071/2	1000 Thuja occ. lutea, 2-yr. T.,		.25
1000 Symphoricarpos vulgaris, T., 9 to 12 ins	.06	.05	3000 Thuje occ. nigre, 2-yr, T.,		.25
450 Syringa villosa, I-yr. S., row run	.04	.031/2	1500 Thuja occ. nigra, 4-yr. TT		.45
2000 Taxus cuspidata, I-yr. T	.20	.171/2	600 Thuja occ. pumila (Little		.30
1000 Taxus cuspidata, 3-yr. TT., 6 to 10 ins	.50	.45	2000 Thuje occ. pyramidalis,	pot grafts	***
2000 Taxus cuspidata browni, 2-yr. T	.30	.25	2500 Thuje occ. pyramidalis, 7	T., 10 to 12 ins50	.45
5000 Taxus cuspidata capitata, I-yr. S	.06	.05	700 Thuja occ. pyramidalis, 2	-yr. grafts, TT.,	
7000 Taxus cuspidata capitata, S., 3-yr. T.,			15 to 18 ins		.60
3 to 5 ins	.35	.30	1000 Thuja occ. wareana, 4-yr.	TT., 10 to 12 ins50	.45
250 Taxus cuspidata columnaris, 3-yr. T., 6 to 12 ins.	.35	* * *	800 Thuja occ. woodwardi, TT	., 6 to 10 ins45	.40
2000 Taxus cuspidata columnaris, TT., 12 to 15 ins	.50	.45	1500 Thuja orientalis aurea na	na, pot grafts	.35
100 Taxus cuspidata columnaris,			600 Thuja orientalis aurea na		.50
6-yr. TT., 18 to 24 ins	1.25	* * *	1000 Tsuga canadensis, 2-yr. T		.25
1000 Taxus cuspidata nana erecta,			200 Tsuga sargenti, pot grat		
2-yr. T., 6 to 10 ins	.30	.25	1000 Viburnum americanum, 1		.05
3000 Taxus cuspidata nana erecta,			800 Viburnum americanum, I		.071/2
4-yr. TT., 10 to 12 ins	.50	.45	2000 Viburnum burkwoodi, 2-ii		.221/2
1000 Taxus fastigiata, 2-yr. T., 4 to 7 ins	.30	.25	1600 Viburnum dentatum, I-yr		.04
150 Taxus fastigiata, 5-yr. TT., 12 to 15 ins	.60	* * *	2000 Viburnum dilatatum, 1-yr.		.07
475 Taxus intermedia (Upright), 2-yr, T., 4 to 9 ins.		* * *	4000 Viburnum dilatatum, 1-yr.		.08
5000 Taxus intermedia (Upright), 3-yr. T., 7 to 12 ins.	.35	* * *	4000 Viburnum opulus, 1-yr. S.		.04
100 Taxus intermedia (Upright).			3000 Viburnum opulus, 1-yr. S.		.05
4-yr. TT., 12 to 15 ins	.75	* * *	1300 Weigela Eva Rathke, I-y	r. C., 6 to 9 ins10	* * *

Please note—All pot grafts will be ready for shipment early May, 1952, at proper time.

All the above is grown by our best growers of lining-out material. All F.O.B. shipping points, packing additional at cost. Usual terms to trade accounts. The above is listed subject to prior sale and subject to usual trade terms as mentioned in our trade lists.

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ownership. This would be the first big step toward a completely controlled state, which every one of us should oppose. The industry is exhibiting its initiative in facing this distribution problem by turning to distribution methods other than freight and express, which, of course, is not the solution of the problem of the carriers. The solution to their problem is to demand a more realistic and efficient management, a new labor policy, leading eventually to a competitive system, both ratewise and servicewise. This has long been necessary.

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Even though the members of this industry engaged in freight, express and truck transportation hestiate before purchasing a fleet of trucks or entering into an agreement to lease trucks, they have no other alternative unless express service, even at the exhorbitant rates, can be improved, and unless freight rates can be kept at a reasonable cost for the

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distribution of our low density commodity. Even though the national interest might not be best served, the industry has no other way to travel except to truck usage either by ownership or under lease.

3. Quarantines.

The A. A. N. has a policy on both foreign and domestic quarantines which directs the activities of the Washington office and its quarantine committee. It is a realistic policy calling for the protection to American horticulture from such pest hazards of foreign countries as may be presented. The policy is clear in regard to the opposition of the inredustry to the acceptance of any point of origin inspection and certification.

Several disturbing incidents have entered into the foreign plant quarantine picture during recent years which the industry in this country must realistically face. In the first place, it is well known that foreign influences are at work, within the industry and within the Department of Agriculture and other departments of government, to open this country up to foreign importations of unlimited quantities of nursery stock produced in other lands. The industry in this country is accused, unjustly so, in my opinion, of using international quarantines as a protection from competition. If every nurseryman had an opportunity of examining the annual reports of the interceptions of plant pests from foreign lands, issued by the United States Department of Agriculture from time to time, he would realize that the importation of plant materials from outside our borders is attendant with pest risks.

Each year, the United States Department of Agriculture's bureau of entomology and plant quarantine publishes a list of intercepted plant pests. In this report, over 4,000 interceptions are reported of insects arriving by air alone. There were approximately 350 interceptions of plant diseases, two-thirds of which represented a potential pest risk to the agriculture and horticulture of this country, according to the U. S. D. A. report. In view of this information, it certainly is difficult for me to conclude that this country is free from danger of importing additional pests of economic importance from foreign countries, even though we would be led to believe that there is no danger involved by the representatives of foreign countries. The facts do not bear out their

[Continued on page 73.]

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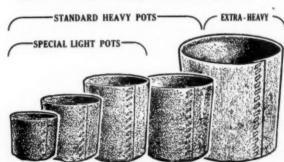
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Plant Notes Here and There

By C. W. Wood

I visited a small neighborhood nursery recently which has a setup after my own heart, for it includes both the bread-and-butter items like phlox, chrysanthemums and daisies and enough unusual material to make the nurseryman's work interesting. Among the unusual material, I noticed a good collection of epimediums, something that one seldom finds in modern nurseries. It prompts a few words on the genus, with the hope that it may interest others in a worthy group of plants.

Epimedium.

If one is looking for something unusual in foliage and flower as well as in landscape value, he need go no further than epimedium. It would mean adding several new items to one's list if all available kinds were taken on; however, that is not necessary in order to take advantage of a plant that would surely add interest to one's offerings.

If I were asked to select just one kind, I believe it would be Epimedium rubrum. That is merely a personal choice and any other kind chosen would no doubt serve as well. The epimediums are essentially foliage plants and give greatest satisfaction and value when that is kept in mind. Here in northern Michigan, they will do well in sun or shade, even up to heavy shade. Leaf coloring is best in shade, where the pretty evergreen foliage takes on tones of bronze. For instance, in its young stages, the leaves of the variety known in nurseries as sulphureum are marked with brown, giving a pleasant spring effect. As they grow older, they become suffused with bronze and carry that showy effect right through the winter.

I am not sure that they need an acid soil, as most of the books say, though they do make better growth here when they are well supplied with a slightly acid peat. Whether that is because of the acidity or because of the moisture-retaining quality of the peat, I cannot say. In any case, they require some attention to their moisture needs in dry weather, especially if they are grown in sun. Propagation is usually by division of the clumps. They also come readily from fall-sown seeds when available.

While writing the foregoing note, I was reminded of another lovely little plant, Thalictrum kiusianum, one of the best tiny carpeters for partly shaded spots that I know. For individual sales, it would probably serve the neighborhood grower well, but it should be a real money-maker for the grower who does landscape work, for it is a splendid landscape plant when rightly used. It should be planted in broad masses in soil containing an abundance of leaf mold and enough sand to supply good drainage, in areas where half shade to heavy shade prevails.

The prettiest planting of it that I have seen was on the north side of a building, where it received sun in the morning and late afternoon and was in full shade for the rest of the day. There it covered a wide expanse with its lovely meadowrue foliage, producing airy, pink and lilac flowers throughout the summer. When given its simple needs, there is no lovelier small plant for shady spots. It is easily propagated by division just as it commences growth in spring.

Despite the fact that the golden marguerite, Anthemis tinctoria, is

usually an inveterate seeder, it continues to catch and hold the gardener's fancy. There are many reasons why that is true, of course, but two of them, its long flowering period and ease of culture, would be sufficient to make any flower of good color popular. The plant is too well known to occupy our attention except to discuss briefly the characteristics of a few named forms.

The type, with its pretty, pale yellow flowers, has not been replaced in garden value by any of its progeny except kelwayi and the newer Moonlight. True kelwayi, which is rarely seen, with its bright vellow flowers and the longest and most prodigious blooming season of any kind that I have grown, is a most desirable plant and one of my favorites of the tinctoria group. One sees all shades of yellow labeled kelwayi, and one knows all cannot be correctly named. They are seedlings, of course, some seedsman's conception of what kelwayi should be. I have not had the true plant for years. I recall, though, that the shade was a buttercup yellow, the most vivid of any tinctoria

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	Per 25	Per 100	Per 250	Per I	000	P	er 25	Per 100	Per 250	Per 1000
Ambrosia Late	\$0.40	\$1.25	\$2.25	\$ 1	8.00	Mastodon (Everbearing)\$0).75	\$2.50	\$4.75	\$17.00
Aroma	.40	1.25	2.25	1	8.00	Massey	.40	1.25	2.25	8.00
Big Joe	.40	1.25	2.25		8.00		.45	1.35	2.50	8.50
Blakemore		1.25	2.25	7	7.50	Premier	.45	1.35	2.50	8,50
Catskill		1.35	2.50		8.50		.40	1.25	2.25	8.00
Chesapeake		1.35	2.50	9	9.00		.45	1.35	2.50	8.50
Dorsett		1.25	2.25		8.00		.40	1.25	2.25	8.00
Dunlap		1.25	2.25	7	7.50		.75	2.50	4.75	17.00
Fairfax	.45	1.35	2.50		8.50	Southland	.40	1.25	2.25	8.00
Fairland		1.25	2.25		8.00	Superfection (Everbearing)	.75	2.50	4.75	17.00
Fairpeake		1.35	2.50		8.50		.40	1.25	2.25	8.00
Gem (Everbearing)		2.50	4.75	17	7.00		.40	1.25	2.25	8.00
Klonmore		1.25	2.25	7	7.50		.40	1.25	2.25	8.00
Lupton Late		1.25	2.25	8	8.00	Tennessee Shipper	.40	1.25	2.25	8.00

GRAPEVINES

	Each	Per 10	Per 100	Per 1000
Agawam (red), 2-yr., No. 1	\$0.30	\$2.00	\$15.00	\$125.00
Agawam (red), I-yr., No. I	.25	1.75	12.00	100.00
Brighton (red), 2-yr., No. 1	.30	2.00	15.00	125.00
Brighton (red), I-yr., No. 1	.25	1.75	12.00	100.00
Caco (red), 2-yr., No .1	.30	2.00	15.00	125.00
Caco (red), 1-yr., No. 1	.25	1.75	12.00	100.00
Catawba (mahogany), 2-yr., No. 1	.30	2.00	15.00	125.00
Catawba (mahogany), I-yr., No. 1	.25	1.75	12.00	100.00
Concord (blue), 2-yr., No. 1	.25	1.75	12.00	100.00
Concord (blue), I-yr., No. I	.20	1.50	9.00	80.00
Delaware (red), 2-yr., No. 1	.30	2.25	18.00	150.00
Delaware (red), 1-yr., No. 1	.25	2.00	15.00	125.00
Fredonia (black), 2-yr., No. 1	.30	2.00	15.00	125.00
Fredonia (black), 1-yr., No. 1	.25	1.75	12.00	100.00
Moore's Diamond (white), 2-yr.,				
No. 1	.30	2.00	15.00	125.00
Moore's Diamond (white), I-yr.,				
No. 1	25	1.75	12.00	100.00
Moore's Early (black), 2-yr., No. 1	.30	2.00	15.00	125.00
Moore's Early (black), 1-yr., No. 1	.25	1.75	12.00	100.00
Niagara (white), 2-yr., No. J	.30	2.00	15.00	125.00
Niagara (white), I-yr., No. 1	.25	1.75	12.00	100.00
Portland (white), 2-yr., No. 1	.30	2.25	18.00	150.00
Portland (white), 1-yr., No. 1	.25	2.00	15.00	120.00
Worden (black), 2-yr., No .1	.30	2.00	15.00	125.00
Worden (black), I-yr., No. I	.25	1.75	12.00	100.00

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	25	100	250	1000
3-yr., No. I grade	\$1.25	\$4.00	\$8.75	\$30.00
2-yr., No. 1 grade		3.00	5.75	20.00
1-yr., No. 1 grade		2.50	4.25	14.00

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11,000	American Dark Green Arborvitae \$21.00 \$190.00)
	Jewell Pyramidal Arborvtiae 21.00 190.00	
12,000	Woodwardi Globe Arborvitae)
4000	Siberian Arborvitae)
	Juniper, Andorra 19.00 170.00)
4500	Juniper, Glauca Hetzi)
	Juniper, Kosteri)
6000	Juniper, Savin 21.00 190.00)
5600	Juniper, Von Ehron 21.00 190.00)

Pot plants above are available for shipment at any time.

Seedlings and Transplants of Arborvitae, Juniper, Pine and Spruce.

	P	er 100	Per 1000
2000	Jewell Globe Arborvitae, 9 to 12 ins., TT	\$45.00	\$400.00
	Jewell Pyramidal Arborvitae, 12 to 18 ins., TT	50.00	450.00
	Juniper, Andorra, 12 to 15 ins., TT	40.00	350.00
	Juniper, Communis Aurea, 9 to 12 ins., TT	35.00	300.00
12,000	Juniper, Scopulorum, 6 to 9 ins., sdlgs	6.00	55.00
20,000	Juniper, Scopulorum, 9 to 12 ins., sdlgs	8.00	75.00
30,000	Juniper, Virginiana, 6 to 9 ins., T	10.00	90.00
9000	Juniper, Virginiana, 9 to 12 ins., TT	16.00	140.00
5000	Juniper, Virginiana, 12 to 18 ins., TT	25.00	200.00
20,000	Austrian Pine, 3 to 6 ins., 3-yr., sdlgs	4.50	40.00
15,000	Austrian Pine, 6 to 8 ins., 3-yr., sdlgs	6.00	50.00
18,000	Mugho Pine, 3 to 6 ins., 3-yr., sdlgs	4.00	35.00
12,000	Mugho Pine, 6 to 8 ins., 3-yr., sdlgs	6.00	50.00
35,000	Ponderosa Pine, 4 to 6 ins., 2-yr., sdlgs	3.50	30.00
30,000	Scotch Pine, 3 to 6 ins., 2-yr., sdlgs	4.00	35.00
10,000	Scotch Pine, 6 to 9 ins., 2-yr., sallgs	5.00	45.00
10,000	Scotch Pine, 9 to 12 ins., 3-yr., sdlgs	7.50	65.00
40,000	Black Hills Spruce, 2 to 4 ins., 3-yr., sdlgs	3.00	25.00
15,000	Black Hills Spruce, 4 to 6 ins., 3-yr., sdlgs	5.00	40.00
60,000	Colorado Blue Spruce, 2 to 4 ins., 3-yr., sdlgs.	3.00	25.00
20,000	Colorado Blue Spruce, 4 to 6 ins., 3-yr., sdlgs.	5.00	40.00

Seedlings and transplants above are available for Spring of 1952 as soon as digging conditions permit in early April.

JEWELL NURSERIES, Inc.

Box 457

LAKE CITY, MINNESOTA

of my acquaintance. According to my experience, kelwayi could not be expected to come true from seeds, and I suspect that still holds good, even as it does in other varieties, such as E. C. Buxton, Perry's and Moonlight.

Of the latter, E. C. Buxton is a good sulphur yellow, pleasing in color, though not so persistent a bloomer here as kelwayi or the type. Perry's variety, on the other hand, is a light golden yellow, shorter in stature than the others, rarely exceeding fifteen inches in our light soil. Nevertheless, it is one of the best for cutting and therefore deserves a place in our operations. The more recent Moonlight is an excellent plant in every way, but probably does not need any recommendation here.

Some Blue Flowers of Autumn.

I just came from a garden where the spring and autumn flowers constitute most of the planting, because the owners are away during the summer. It gave me a new impression of the value of blue in the autumn landscape and prompts these remarks.

Several good blue flowers can supply the need for that color in the fall garden. Of these, monkshoods are no doubt of greatest value, if one has a proper soil. We have always had trouble with them in this light soil, even with the utmost care, but in the heavy clay of our old Ohio garden they throve like weeds. I remember with much pleasure, too, a planting of Aconitum wilsoni and Aster Harringtons Pink which I saw in a nursery several years ago. It not only gave me much pleasure at the time, but has suggested several associations of much potential beauty. Thus, I should expect the paler blue flowers of A. fischeri and any of the pink asters, or either of the monkshoods mentioned and vernonia, to make pleasing pictures in the autumn garden.

Salvia azurea grandiflora, in addition to being one of the grand flowers of the entire year, adds a touch to the fall landscape which is available from no other source that I know. Its beautiful sky-blue flowers, large for a sage, give it distinction in any planting. Its ease of culture in any sunny, well drained spot gives it value to the casual gardener, and an almost ironclad hardiness, at least in material from the northern part of its range, fits it for gardens throughout most of the country. Try it in association with pale yellow or

[Continued on page 69.]

Four Tools That Will Cut Your Costs

Every penny and minute you save every day on your wrapping, tagging, labeling, packaging, and balling operations adds up to extra year-end profits. That's why it will pay you to use Bostitch stapling pliers, hammers, tackers, and other Bostitch staplers. They're so easy to use that they make skilled help out of green hands.

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Tree Maintenance

By Noel Wysong

WOUND DRESSINGS— PAST AND PRESENT.

When compared to the tremendous advances that have been made in nuclear physics, aeronautics and many other highly technical fields, problems that must be solved in the development of a truly satisfactory dressing for tree wounds seem simple indeed. That a thoroughly good dressing has not been developed is all the more amazing in view of the fact that experiments were being made with wound dressings at least 2,300 years ago and possibly even earlier; certainly, long before anybody knew what an atom was, and when only birds flew. Be that as it may, about 302 B. C. Theophrastus, one of the ancient Greek scientists, wrote his "Enquiry into Plants," in which he remarks that when the bark has been injured or the trunk girdled, "Men try to help the tree by plastering it with mud and tying pieces of bark, reeds, or something of the kind about it, so that it may not take cold nor become dried out.'

Archaic Dressings.

John Evelyn in his "Sylva, or A Discourse of Forest Trees," dated 1662, suggests several types of wound dressings. In discussing the removal of longitudinal strips of bark to aid "bark-bound" trees he advises, "Fill the rift with a little cow dung," to cause healing of the wound. And referring to borers in trees, he states, "Once found, they are to be taken out with a light incision and the wound covered with loam." In treating cuts, presumably resulting from pruning operations, he suggests, "Among other remedies, a cerecloth of fresh butter and honey applied when the wound is green, especially in summer, and bound about with a thumb-rope of moist hay, and rubbed with cow dung has healed many. But for rare and more tender trees, after pruning, take purely refined tallow, mingled and well hardened with a little loamy earth and horse dung newly made." He recommends that cankers "are to be cut to the quick, the scars emplastered with tar mingled with oil and over that a thin spreading of loam." He also suggests the "laying of wood-ashes, nettles or fern to the roots," to aid in the healing of wounds caused by removal of cankers.

Types of injuries and specific in-

structions for treating the wounds are given by William Forsyth in his "Treatise on the Culture and Management of Fruit Trees," written in 1791. "Of those (trees) which suffer from bad management or accidents,' he says, "some are injured by unskillful pruning and lopping at improper seasons of the year, and others by the violence of high winds; or from heavy and soaking rains the wounds imbibe so large a quantity of wet and moisture as, by causing a fermentation with the natural juices. brings on decay, and in time destroys the health and vegetation of the tree." That Forsyth was not one to hide his light under a bushel is evident as he continues, "To remove these evils I submit to the experience of the public a remedy discovered by myself, which has been applied with neverfailing success to all

kinds of fruit trees, and has not only prevented further decay, but actually restored vegetation and increased fruitfulness even in such as were apparently barren and decayed."

Remedy Described.

Forsyth describes his remedy or "Composition" as being "of a soft and healing nature, possesses an absorbent and adhesive quality, and by resisting the force of washing rains, the contraction of nipping frosts, and the effects of a warm sun or drying winds, excludes the pernicious influence of a changeable atmosphere." To make the "Composition" he says, "Take one bushel of fresh cow dung, half a bushel of lime rubbish of old buildings, that from the ceilings of rooms is preferable, half a bushel of wood-ashes, one-sixteenth part of a bushel of pit or river sand the last three articles are to be sifted fine before they are mixedthen work them well together with a spade and afterwards with a wooden beater until the stuff is very smooth like fine plaster." After smoothing the surface of the wound, he advises,

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Scotch Pine (Riga), 2-0, 2 to 4 ins 2.50	15.00	Colorado Blue Spruce, 3-0, 4 to 6 ins.	4.50	35.00
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American Red Pine, 2-0, 2 to 4 ins 3.50	25.00	Black Hills Spruce, 2-0, 3 to 5 ins	3.00	20.00
American Red Pine, 3-0, 4 to 6 ins 4.00	30.00	Black Hills Spruce, 2-0, 5 to 8 ins	4.00	30.00
American Red Pine, 3-0, 6 to 9 ins 5.00	40.00	White Spruce, 3-0, 3 to 6 ins	3.50	25.00
American Red Pine, 4-0, 8 to 14 ins 6.00	50.00	Engelmann Spruce, 2-0, 3 to 6 ins	4.00	30.00
Japanese Red Pine, 2-0, 2 to 4 ins 2.50	15.00	Balsam Fir, 4-0, 5 to 10 ins	6.00	50.00
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Japanese Red Pine, 3-0, 8 to 16 ins 4.00	30.00	Japanese Larch, 3-0, B to 14 ins	3.00	25.00
Austrian Pine, 2-0, 3 to 5 ins 4.00	30.00	Japanese Larch, 3-0, 14 to 30 ins	5.00	35.00
Ponderosa Pine, 2-0, 4 to 6 ins 4.00	30.00	European Larch, 3-0, 15 to 30 ins	5.00	35.00
White Pine, 2-0, 3 to 5 ins 3.50	25.00	Hemlock (Canadian), 2-0, 3 to 6 ins	4.50	35.00
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Mugho Pine (Dwarf), 2-0, 3 to 5 ins 4.00	30.00			each in
Norway Spruce, 2-0, 3 to 6 ins 3.00	20.00		lot	s of 10
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ALMOND, PINK-FLOWERING. Own-root plants; no sucker from the understocks. Double pink, rose-like flowers. 2 to 2½ feet. 18 to 24 inches.	Per 10	Per 100
2 to 2½ feet	.8 6.00	8 55.00
2 to 2½ feet. 18 to 24 inches QUINCE, FLOWERING. Superior cutting-grown selecte strain; upright-growing with scarlet flowers. The best. 2 to 2½ feet.	. 5,00 d	45,00
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CAMMOANCA DICTIONA (Furple Benuty Berry), Dark	. 4.00	35,00
showy clusters of lavender-purple berries; pink flowers. 18 to 24 inches.	. 4.00	35.00
18 to 24 inches COTONEASTER ACUTIFOLIA (Peking Cotonenster), Grace ful habit of growth; pinkish flowers, black berries i	n	
autumn. 2 to 3 feet. 18 to 24 inches. COTONEASTER DIVARICATA (Spreading Cotoneaster) Glossy semievergreen foliage; pink flowers, red fruit. 2 to 3 feet.	. 5,50 . 4,50	50,00 40,00
COTONEASTER DIVARICATA (Spreading Cotoneaster)	. 4.00	40.00
2 to 3 feet	. 9,00	
12 to 18 inches	. 6,50 . 4,50	40.00
12 to 18 inches. EUONYMUS PATENS (Spreading E.). Broad-leaved ever green with many uses. Orange-red fruits in winter. 30 to 36 inches, B&B. 24 to 30 inches, B&B. 18 to 24 inches, B&B. FORSYTHIA SPRING GLORY. One of the best forsythias Covered with pale yellow flowers early spring.		
30 to 36 inches, B&B	37,50 35,00	325,00
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Covered with pale yellow flowers early spring. 3 to 4 feet	7.00	65,00
2 to 3 feet	5,50 4,50	50.00 40.00
18 to 24 inches. HONEYSUCKLE FRAGRANTISSIMA (Winter H.) Foliagenearly evergreen. Creamy white lemon-scented flowers in	1	
early spring.	6.50	60.00
		45,00 35,00
18 to 24 inches. HONEYSUCKLE MORROWI. Spreading habit; white flower changing to creamy vellow. Red fruits.	rs	
HONEYSUCKLE MORROWI. Spreading habit; white flower changing to creamy yellow. Red fruits. 3 to 4 feet. 2 to 3 feet. HYDRANGEA A.G. (Hills of Snow). Large clusters of double white flowers. June and July. Thrives in shade. 2 to 3 feet.	6.50	60.00 45.00
HYDRANGEA A.G. (Hills of Snow). Large clusters of		
		55,00 45,00
18 to 24 inches. HYDRANGEA NIKKO BLUE, Most beautiful of hardy blue hydrangeas. Enormous flowers, blue in acid soil, pink in		110,000
alkaline.		75,00
HYDRANGEA PEEGEE. Meehan strain, finest of Peegees		********
2 to 3 feet	6.00	55.00 45.00
2 to 3 feet. 18 to 24 inches LILAC ROTHOMAGENSIS (Chinese Lilac). Large, broad lavender-purple flower heads. Dependable bloomer.		10.00
2 to a reet	5.50 4.50	50,00
PRUNUS TOMENTOSA (Nanking Cherry), Large, white	1.00	90.00
2 to 3 feet	5,50 4,50	50,00
18 to 24 inches. RHODOTYPOS SCANDENS (Jetbend). Low, spreading shrub with white flowers followed by clusters of black	1,000	917.1747
berries.		45.00
RHUS AROMATICA (Fragrant Sumac), Large clusters yellow flowers early spring, followed by brilliant red berries		417,1717
2 to 3 feet	5,50	50.00 40.00
18 to 24 inches. RIBES ODORATUM (Golden Currant). Fragrant yellow flowers early spring. Edible black currants.	Bashell	40.00
2 to 3 feet	5.00	$45.00 \\ 35.00$
spirate Anthony Waterer, Dwarf shrub with flat-	24.0.0	.5.5.(14)
2 to 2½ feet	5.00 4.50	45.00
SPIRAEA ARGUTA (Garland Spiraea), Narrow, ferny	4.00	40.00
		45.00
2 to 21/2 feet. 18 to 24 inches. SPIRAEA FROEBELL Semidwarf shrub with clusters of	4.00	35.00
snowy, bright pink nowers all summer.	5.00	45.00
2 to 2½ feet. 18 to 24 inches. WEIGELA EVA RATHKE Blooms profusely with deep red	4.00	35.00
18 to 24 inches WEIGELA EVA RATHKE. Blooms profusely with deep red trumpet-shaped flowers in May and June. 18 to 24 inches.	5,00	45,00
12 to 18 inches	3.50	32.00
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"Lay on the plaster one-eighth inch thick all over the part where the wood or bark has been cut away. Then take a quantity of dry powder of wood-ashes mixed with one-sixth part of same quantity of the ashes of burnt bones, put it in a tin box with holes in the top and shake the powder on the plaster." He recommends that the powder be sprinkled on at half-hour intervals and "rubbed gently with the hand until the plaster becomes a dry, smooth surface."

Apparently Forsyth found that his "Composition" could be applied more easily in a liquid form with a brush, for he says, "As the best way of using the Composition is found by experience to be in a liquid state, it must, therefore, be reduced to the consistence of a pretty thick paint by mixing it up with a sufficient quantity of urine and soapsuds, and laid on with a painter's brush." Although we may question the efficacy of Forsyth's material in either paste or liquid form as a wound dressing, there is no doubt of his business acumen; for developing his "Composi-tion" he received a grant from the English Parliament of 4,000 pounds sterling, the equivalent, before World War II, of some \$20,000! Perhaps envy of Forsyth's financial success influenced the opinion of some of his contemporaries who violently refused to approve his "Composition." William Pontey said of Forsyth, "No one that believes him will care to prune a single tree, much more a great number; the remedy being abundantly worse than the disease." Pontey advocated "a good putty" followed by two coats of thick paint.

Interest Stimulated.

If Forsyth's "Composition" did nothing else, the controversy it aroused apparently stimulated interest in wound dressings. In the years that followed, a considerable number of different materials were suggested for use, and as knowledge of plants increased, the wound dressings gradually improved in quality with respect to their proper functions, as we understand those functions today. Forsyth's influence is noticeable in D. J. Browne's recommendation in 1832 of "three parts of cow dung and one of sifted lime," but J. C. Loudon, in 1834, suggested paint, putty and paint, and a mixture of tar and tallow. In 1840 T. Bridgeman advocated soot mixed with water and train oil, while Count A. Des Cars, in 1864, recommended coal tar. In 1867, Dr. John A. Warder said, "It is well to cover the exposed surface (of pruning wounds) with something to exclude atmospheric moisture,

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suga Canadensis Sargenti		
visiana mulliuga (Lavender, long clusters). 40		40.6

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EUONYMUS YEDOENSIS

Pink fruits with red hearts. Large, bushy leaves in fall.

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whether this be paint, varnish or

shellac, or common grafting wax."

In Elbert Peets' "Practical Tree Repair," copyright 1913, and Dr. W. H. Rankin's "Manual of Tree Diseases," published in 1918, we find a new type of treatment discussed; the use of cotton padding saturated with wound dressing. This saturated pad is pressed against the wound, trimmed to shape, held in position by the adhesive properties of the dressing or with glue, and then given several coats of wound dressing. Liquid asphaltum, a proprietary dressing known as "Varnolene," avenarious carbolineum, waterglass, liquid latex, Bordeaux paint, orange shellac and various other materials have been suggested for use as wound dressings by Selby, Howe, Young, Zeller, Marshall and others since

At the sixteenth National Shade Tree Conference, Dr. Paul E. Tilford, then with Ohio agricultural experiment station, Wooster, reported a series of tests conducted on wound dressing materials. The materials included Bordeaux-linseed oil paint, liquid asphaltum, asphaltum-creosote, mercuric chloride-lead paint, lanolin and others. In commenting on the results of these tests, Dr. Tilford said, "Of the materials used in (these) experiments, asphaltum has been most satisfactory as a wound dressing. Asphaltum dissolved in a light, volatile hydrocarbon solvent consistently stimulated callus formation during the first year following wounding and treatment. This type of dressing has been superior to the others in preventing checking and cracking of the wood, which is important in keeping out decay." He also said, "It is surprising that lanolin containing indolebutyric acid did not stimulate callus formation. More work should be done in an effort to incorporate growth substances in wound dressings to stimulate callus growth."

World War II was responsible for one of the more recent attempts to develop a better wound dressing. In the early days of the war many newly constructed army facilities were being placed in forested areas to minimize the danger of enemy bombing. Since the trees near these facilities were constantly subject to trunk injuries from local vehicular traffic, techniques that would promote rapid healing of wounds, thus preserving the health of the trees so that they would constitute an effective screen, were of concern to the army's camou-

flage branch.

As reported in the Journal of Forestry, Vol. 48: 423-428, by W. E.

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Editor McFarland	Briarcliff
Pink Radiance	Picture
Betty Uprichard	
,	PELLOWE

Golden	Luxembourg
Roslyn	Sceur Therese

MULT	ICOLORS	
desa de Sastago ident Hoover	Countess Talisman	Vanda

	WHILES
Caledonia	K. A. Viktoria

		FLORIBUNDAS	,			
Cecile Ideal	Brunner	Golden	Salmo			

	CLIMBERS
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				Per 100	Per 1000
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Abelia), 2-in, pots	\$17.00	\$150.00
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Ligustrum Lucidum Compac- tum (Waxleaf Ligustrum), 21/4-in, pots	17.00	150.00
Nandina Domestica (Lath house grown), transplanted, 6 to 9 ins.	22.00	200.00

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McQuilkin, of the Northeastern forest experiment station, Kingston, Pa., tests of wound dressing materials were begun at the Beltsville, Md., experimental forest. During the period 1942-1945 a total of 13,560 test wounds were made and treated. in which 646 trees, representing ten species, were involved.

Materials used as wound dressings included growth regulators with lanolin and with orange shellac, lanolin alone, lanolin with linseed oil, with turpentine, with rosin and with crude pine gum, Bordeaux paste, plastic asphaltum and several others. Major conclusions drawn from the results of these experiments were: (1) No growth regulator was found that increased the rate of healing; (2) lanolin alone or mixed with rosin and pine gum promoted healing by preventing drying and dieback at the wound edges, thus allowing callus growth to begin promptly; (3) lanolin and rosin in proportions of ten to four, or lanolin-rosin-pine gum in proportions of 10-2-2 were superior in physical properties to lanolin alone.

In summing up the results Mr. McQuilkin says, "Probably the most important result of this work was that it demonstrated the potentialities of lanolin as a base for tree wound dressings. The performance of lanolin, both alone and in blends with rosin and pine gum, has been so consistently good in these experiments as definitely to establish a place for it among proved wound dressing materials. The value of lanolin, though well demonstrated on the small wounds, remains to be confirmed for larger heartwood wounds."

Search Continues.

So the search for the perfect wound dressing continues. The qualities desired have been stated by many competent arborists. The material must be such that it is not injurious to the cambium; it should disinfect the area treated, be toxic to parasitic organisms and prevent the entrance of fungi and boring insects. It should prevent the checking of wood, be of such nature that it can be easily applied in both winter and summer, will not melt in summer nor become so hard in winter that it cracks and flakes off. It should be porous enough to permit excess moisture to evaporate from the wound it covers, yet not so thin that it is completely absorbed by the wood. It should adhere well to fresh wounds, should not be unsightly and should stimulate callus formation.

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This Business of Ours

Reflections on the Progress and Problems of Nurserymen By E. Sam Hemming

WYE OAK; OLD WYE CHURCH.

Several years ago, I made some comments on the famous Wye oak in Talbot county, Maryland. Additional attention given it and its neighbor, the Old Wye church, make further comment interesting to plant lovers and tourists. Briefly, to those who have not seen it or heard of it, the Wye oak is a 400-year-old white oak, the largest in the United States. Having grown all its life in unconfining majesty, it is a giant much broader than tall. Its spread is over 165 feet, its height about ninety feet, and its buttressed trunk is thirty feet in diameter at the ground and over six feet at shoulder height. In 1939, it was given to the state of Maryland and is now in a small state park. Words do not describe its majesty, yet like all great trees it impresses the beholder. I like to repeat the story of the motorist friend of my father's, who, on passing it, tipped his hat. When my father asked why, he remarked, "Why, I always do that."

The ladies of the local garden club have also taken it under their interest and care. They conceived the idea of saving the acorns and growing seedlings of the tree to sell to visitors, the proceeds to go to the park facilities. I gave them the suggestion that they grow them in tins, not only for convenience, but because of the taproot. Similarly, they plan to root boxwood cuttings from famous old gardens and sell the lit-

tle plants.

Not so well known, at least until recently, is the Old Wye church, which is some 300 yards away. This little Episcopal church, built in 1721, was often admired by visitors, but was not particularly noted as a historical shrine until recently. Through the interest of some nearby public-spirited residents during the past ten years, it has come into its own, the interest culminating in its complete restoration by a wealthy benefactor. Taking his cue from the restoration of Williamsburg, he sent researchers to England at considerable expense, to trace to the source all available information on its design, construction and furnishings. In fact, Williamsburg architects and landscape architects were employed to make it as nearly authentic as possible. In addition, the

vestry house was built to the original specifications on its former site. It had been destroyed many years

The landscaping, as is proper, consists of virtually no planting. On the grounds, though, is a giant white oak, which were it not for the Wye oak, would be a tree worth going miles to see. It is taller than the Wye oak, but does not have its spread, diameter, nor probably its age. The trunk is about five feet in diameter. The soil in that locality must be ideal for growing large trees, for there are more of these spectacularly large white oaks on an old school ground not an eighth of a mile away.

It is good to see this kind of public interest in trees, plantings and the

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Biota Aurea Nana		225.00	Cassine Angustifolia 20.0	0
Elegantissima	20.00	185.00	Cassine Myrtifolia 20.0	0 105.00
*Elegantissima, 6 to 8 ins	22.50	200.00	Cornuta Burfordi 20.0	0 185.00
Lutea (George Peabody)	20.00	175.00	*Crenata 17.5	0 150.00
Pyramidalis	20.00	185.00	*Crenata Bullata Convexa,	
*Pyramidalis, 6 to 8 ins	22.50	200.00	6 to 8 ins 22.5	0 200.00
		175.00	Crenata Helleri 25.0	
Woodwardi	20.00	225.00	*Crenata Microphylla, 6 to 8 ins 22.5	
*Woodwardi, 6 to 8 ins	25.00	225.00	*Crenata Rotundifolia, 6 to 8 ins 20.0	
Taxus.	05.00		Glabra 20.0	0 185.00
Baccata Fastigiata		150.00	Opaca (cuttings from choice berry	
Cuspidata		150.00	plants) 30.0	0 275.00
Cuspidata Capitata		175.00	Opaca Croonenburg 30.0	0 275.00
Cuspidata Hunnewelliana		185.00	Opaca East Palatka 30.0	0
Cuspidata Intermedia		150.00	Opaca Howardi 30.0	0
Cuspidata No. 17		150.00	Vomitoria Pyramidalis)
Media Brevifolia		185.00	Leucothoe Catesbaei, 6 to 8 ins 25.0	225.00
Media Browni		185.00	Ligustrum.	
Media Hatfieldi	20.00	185.00		175.00
Media Hicksi	20.00	175.00	*Lucidum, 6 to 8 ins	
Aucuba.			*Magnolia Grandiflora. 6 to 8 ins 20.0 *Nandina Domestica. 4 to 8 ins 12.5	
Japonica	17.50			100.00
	17.50		Osmanthus.	
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Benigiri	15.00		Fortunei 20.00	185.00
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Hinodegiri		125.00	Japonica)
Hinomayo		125.00	Prunus Laurocerasus.	
Indica Alba		125.00	Officinalis (Eng. Laurel) 17.5	0
Lady Lilac		125.00	Pyracantha.	
		125.00	Crenato-Serrata (red berries) 20.00	175.00
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Purple King	25.00		Lalandi (orange berries) 20.0	
Gable—Cameo, Elizabeth, Susan	25.00		Pauciflora (yellowish-red berries). 17.5	150.00
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Julianae	20.00	175.00	Viburnum Rhytidophyllum	100.00
*Julianae, 6 to 8 ins	20.00	175.00	*Tomentosum 12.50	100.00



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Coming Events

MEETING CALENDAR.

January 15 to 17, Illinois State Nurs-erymen's Association, Hotel La Salle, Chicago.

January 21 to 23, short course for arborists, landscape gardeners and nurserymen, Neil House, Columbus, O.
January 22 and 23, Kentucky State

Nurserymen's Association, Lafayette hotel, Lexington.
January 23 to 25, Ohio Nurserymen's

Association, Neil House, Columbus.

January 24 and 25, Canadian Associa-

tion of Nurserymen, Royal York hotel,

Toronto, Ont.
January 25, Western New York Nurs-erymen's Association, Hotel Sheraton,

January 27 to 29, Virginia Nursery-men's Association, Hotel John Marshall, Richmond. January 30 and 31, Pennsylvania Nurs-

erymen's Association, Warwick hotel, Philadelphia.

January 30 and 31, Oregon Association of Nurserymen, Heathman hotel, Port-

January 30 to February 1, Tennessee State Nurserymen's Assocation, Hotel Andrew Jackson, Nashville.

January 30 to February 1, Michigan

Association of Nurserymen, Hotel Statler, Detroit.

January 31, New Jersey Association of Nurserymen, Hildebrecht hotel, Trenton. February 4 to 6, New England Nurs-ymen's Association, Hotel Kenmore, erymen's Boston, Mass.

February 13 to 15, Midwestern chapter of the National Shade Tree Conference, Hotel La Salle, Chicago. February 19 to 21, nursery conference,

Pennsylvania State College, State College. February 20, Rhode Island Nurserymen's Association, Johnson's Hummocks

grill, Providence.

March 20 to 22, American Camellia Society, Cavalier hotel, Virginia Beach,

March 28 and 29, Southern Shade Tree Conference, Hotel John Marshall, Richmond, Va.

OHIO SHORT COURSE.

Matters of interest to arborists, landscape gardeners and nurserymen will be covered in the twenty-third annual Ohio short course to be held January 21, 22 and 23 at the Neil House, Columbus, under the auspices of the department of horticulture and forestry of Ohio State Univer-

January 21 will be Arborists' day and will include morning lectures on "The Status of Oak Wilt in Ohio," by George Bart, department of botany and plant pathology, Ohio State University, and "Can Arboriculture Solve Its Current Problems?" by Noel B. Wysong, Cook county, Illinois, Forest Preserve district.

The afternoon session will feature panel discussions on "Practical Results Accomplished by Spraying for

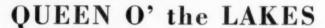
Control of Dutch Elm Disease and Phloem Necrosis," and "Planting and Early Maintenance of Street Trees." Paul E. Tilford, executive secretary, National Arborist Association, Wooster, O., will lead the first discussion, assisted by J. Melvin Easterday, landscape contractor, Easterday, landscape contractor, Canton, O.; H. N. Engledow, Midwestern Tree Experts, Indianapolis, Ind.; Edward H. Scanlon, commissioner, division of shade trees, Cleveland, O., and Oscar F. Warner, landscape forester, Waterbury, Conn.

The panel on street trees will include T. F. Mathieu, department of horticulture, Ohio State University, as leader, with R. S. Barnhardt, superintendent of parks, Akron, O.; Harry A. Gray, superintendent, board of park commissioners, Cincinnati, O.; J. A. Sweeney, city forester, Toledo, O., and Mr. Scanlon.

A dinner, an illustrated talk on arboriculture by Mr. Warner and a business meeting of the Ohio chapter of the National Shade Tree Confer-

ence will occupy the first evening. Landscape gardeners will have their day on January 22, when they will hear, in the morning, Victor H. Ries, department of horticulture. Ohio State University, on "It Will Grow in the Shade"; J. A. Aitken, Roschall Nurseries, Ltd., Brantford, Ontario, on "Mechanized Landscape Equipment," and W. P. Martin, department of agronomy, Ohio State University, on "Synthetic Soil Aggregating Conditioners for Lawns and Planting Sites." The Ohio State Floriculture Alumni Association will hold a luncheon following this ses-

The afternoon program will feature H. B. Musser, department of agronomy, Pennsylvania State College, speaking on "New Lawn Grasses; Their Advantages and Limitations"; Alex Laurie, department of horticulture, Ohio State University, on "Landscaping the Interior," and a panel discussion on landscape planting conducted by Professor Ries. Other panel members will be Charles Kohankie, Julius Kohankie & Sons, Painesville, O.; Dave Metzger, Terrace Gardens Co., Youngs-



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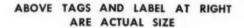
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town, O., and George Tobey, Jr., school of architecture and landscape architecture, Ohio State University.

In the evening, W. R. Leslie, superintendent of the Dominion experimental farm, Morden, Man., will speak on "Some Rare and Unusual Woody Ornamental Plants."

On January 23, Nurserymen's day, the morning session will open with a discussion of nursery research problems at Ohio State University by Prof. L. C. Chadwick, of the university's department of horticulture. His talk will cover such subjects as plant adaptations, propagation practices, soil studies and weed control. Professor Chadwick will be followed by Richard H. Fillmore, propagator, Arnold Arboretum, Jamaica Plain, Mass., speaking on the propagation of new and rare plants.

The afternoon session, sponsored jointly by the Ohio State University department of horticulture and the Ohio Nurserymen's Association, will open with "Investigations of Nursery Insects During 1951," by R. B. Neiswander, department of entomology, Ohio agricultural experiment station, Wooster. F. S. Howlett. department of horticulture, Ohio State University, will relate his "Observations of Some Nursery Practices in Europe," followed by William P. Howe, Jr., Howe Nurseries, Pennington, N. J., on "Nursery Stock Production Practices."

The meeting will conclude with a panel discussion on pruning evergreens in the nursery, under the leadership of Professor Chadwick. Other panel members will be Hans Dieckmann, John Dieckmann & Sons, Elm Grove, W. Va.; John Siebenthaler, the Siebenthaler Co., Dayton, O., and Frank Turner, Berryhill Nursery Co., Springfield, O.

OHIO PROGRAM SET.

Outstanding speakers will feature the meeting of the Ohio Nurserymen's Association to be held at the Neil House, Columbus, January 23, 24 and 25. Registration will open at 10 a. m. January 23, with the meetings beginning at 1:30 that afternoon. The first afternoon session is sponsored jointly by the association and the Ohio State University department of horticulture as part of the university's short course, and the program details will be found in an article on the course which appears elsewhere in this section.

A "Hospitality Evening" will take place on Wednesday, featuring Dutch treat refreshments, cards and conversation. A slide session will



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The morning program for January 24 will open with a report on the economic situation and future prospects for horticultural products by Mervin W. Smith, agricultural economist, Ohio State University. Richard P. White, executive secretary of the American Association of Nurserymen, will then discuss current trends affecting the nursery and landscape fields. A business meeting will complete the morning schedule.

Charles Hetz, Fairview Evergreen Nurseries, Fairview, Pa., will open the afternoon proceedings with a talk on nursery business management and stock management. He will be followed by Kenneth C. Voght, labor relations consultant of Dayton, O., who will discuss labor matters. Harold G. Seyler, Farr Nursery Co., Weiser Park, Pa., will conclude the afternoon session.

The day will close with the twentieth annual "Ye Olde Tyme" dinner, a traditional evening event with entertainment and music.

Frank Winter, who is handling botany and plant pathology operations at the Ohio agricultural experiment station, Wooster, will open the morning session of January 25.

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Norway Pine, 2-0, bed run	5.00	30.00
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American Arborvitae, 2-2, 4 to 8 ins	6.00	40.00
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He will be followed by a round-table discussion on "Cash-and-carry Sales As a Labor Savings," with Paul W. Aukeman, Hollandia Gardens, South Vienna, O., as moderator. Other participants will be Walter Hillenmeyer, Hillenmeyer Nurseries, Lexington, Ky.; Walter M. Coon, Farmington Gardens Nursery, Farmington, Mich., and Philip M. Segelin, Segelin's Flower Center, Cleveland.

Prof. L. C. Chadwick, department of horticulture, Ohio State University, will then discuss the 1951 results of the Ohio Nurserymen's Association research fellowship. He will examine the current standing of the project, comment on its cumulative results and remark on its future possibilities. A business meeting will conclude the activities.

At 12:15 p. m. will occur the annual luncheon meeting for members of chapter 1, American Association of Nurserymen, their wives and families. A business session will be held.

CANADIAN PROGRAM.

A directors' meeting on Wednesday, January 23, will open the twenty-ninth annual convention of the Canadian Association of Nurserymen, to be held January 23, 24 and 25 at the Royal York hotel, Toronto, Ontario. The general sessions will get under way the following day, with a business meeting on the morning agenda.

The Thursday afternoon session will open with an address on group insurance by C. Preston Gilbride, Toronto. Dr. A. M. S. Pridham, Cornell University, Ithaca, N. Y., will follow with a talk on "Pre-defoliation; Weed Control." The session will conclude with Howard P. Quadland, director of information, American Association of Nurserymen, speaking on "Plant America." The president's reception will be held in the evening.

Friday morning's session will feature a series of films, the titles of which will be announced at the meeting. The afternoon meeting will open with a panel on landscaping, of which J. A. Aitken, Rosehall Nurscries, Ltd., Bradford, Ontario, will be chairman. Other panel members will be C. E. Robinson, Central Mortgage and Housing, Toronto; J. Dunnington-Grubb; Austin Floyd, University of Toronto; J. Jarvis, and K. Rogers.

Dr. Pridham will return to the podium at this session to describe a "Horticultural Trip to Australia;

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Marketing and Production." A second panel, on merchandising and selling, will follow, with Norman Scott, Brookdale-Kingsway, Ltd., Bowmanville, Ontario, as chairman. The panel will cover the subjects of catalogs, salesmen, and sales stations. Friday evening will feature the annual banquet and entertainment.

Ladies attending the sessions will be treated to a special program on Thursday, including a visit to the Canadian Broadcasting Corp. stu-dios to see "The Happy Gang." Tea will follow at the Granite Club. Friday has been set aside for ladies' shopping and sight-seeing.

OREGON PROGRAM SET.

Delegates to the midwinter meeting of the Oregon Association of Nurserymen at the Heathman hotel, Portland, January 30 and 31, will find an excellent program arranged. The sessions get under way with a business meeting in the morning of January 30, to be followed by an address, "The Government Can't Give You Anything," by William E. Hammond, division manager, United States Chamber of Commerce.

After luncheon, Henry Hausch, Roseway Nurseries, Portland, will

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present color motion pictures. The speaking program will resume with "Merchandising Problems in the Retail Nursery," by P. H. (Jock) Brydon, Brydon's Nursery & Seed Store, Salem. A round-table discussion will follow on "Grading and Pricing of B&B Nursery Stock," with Robert A. Walker, Holgate Nursery, Portland, presiding. John Laing, Laing's Nursery, Portland, will assist, and demonstrations with live plant material will be featured.

After the adjournment of this session, there will be a cocktail hour, buffet supper and dancing at the

Shrine Club.

Thursday morning's session will open with a report of the January 29 meeting of the Bulb, Florist and Nursery Council by Samuel J. Rich, Rich & Sons Nursery, Hillsboro. George Griffis, director of plans and merchandising, Pacific National Advertising Agency, will then discuss "Effective Retail Advertising." The morning will conclude with a talk on effective selling by N. H. Comish, professor of business administration, University of Oregon.

After luncheon, there will be reports and open discussion on the general theme, "Market Development and Publicity." Subjects to be covered will include the "Plant Oregon" program, open house for nurseries, the possibilities of an Oregon association emblem and other points pertinent to the development of a healthy and profitable retail nursery trade. Wayne Melott, chairman of the association's market development and publicity committee, will act as moderator.

A business meeting of chapter 12, American Association of Nurserymen, will conclude the afternoon, with chapter President Sigward Edstrom, U. S. Espalier Nursery, Sherwood, presiding.

PENNSYLVANIA PROGRAM.

A forum, entitled "How Can Our State Association Better Help Our Members," will open the 2-day win-ter meeting of the Pennsylvania Nurserymen's Association, Wednesday morning, January 30, at the Warwick hotel, Philadelphia. Eugene Muller will be moderator. Specific topics to be discussed will include best uses of advertising, a full-time state secretary and inventory control in a retail nursery.

After a group luncheon, the afternoon session will include the president's address and a chapter meeting of the American Association of Nurserymen. Mary Deputy Lamson, landscape architect, will then speak

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IRISH ASHFORD VASE-SHAPED SYLVESTRIS

- *Tops in grades
- *Full counts-plus
- *Fairest price
- *Large quantities

on "Preferences and Prejudices in Plant Design." She will be followed by Dr. Richard P. White, executive secretary of the A. A. N. An informal banquet and entertainment will be held Wednesday evening.

Committee reports and a business meeting will open the Thursday morning session, after which Amos Kirby, radio farm director of station WCAU, Philadelphia, will speak on "What We Are Doing Through Ra-dio to Promote Better Home Plantings." Other speakers for the Thursday sessions had not been arranged at press time, but it was hoped that one of them would be Pennsylvania's Sen. James Duff. Installation of officers will conclude the meeting.

MICHIGAN PROGRAM PLANS.

Tentative plans for the winter meeting of the Michigan Association of Nurserymen, to be held at the Hotel Statler, Detroit, January 30 to February 1, include the annual reception party in the Statler's Michigan room on the evening of opening day. Entertainment will be featured.

The program gets into full swing on Thursday, January 31, with a number of speakers scheduled. C. A. Boyer, chief of the bureau of plant

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6 to 9	ins.						,			. \$	60.00
4 to 6	ins							*			42.50
2 to 4	ins	*	*	×		×					25.00
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Fruit Trees French Lilacs

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Per 100 Per 1000
ARBORVITAE, American.
4 to 6 ins., sdlgs \$ 4.00 \$ 35.00
6 to 8 ins., sdlgs 5.00 45.00
8 to 10 ins., sdlgs 6.50 60.00
10 to 12 ins., sdlgs 7.50 70.00
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AUSTRIAN PINE.
4 to 6 ins., sdlgs 7.50 70.00
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8 to 10 ins., sdlgs 11.00 100.00
JACK PINE.
4 to 6 ins., sdigs 3.50 30.00 6 to 8 ins. sdigs 4.50 40.00
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MUGHO PINE (Dwart).
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SCOTCH PINE. 6 to 8 ins., sdigs 6.50 60.00
8 to 10 ins., sdlgs 8.50 80.00
10 to 12 ins., sdlgs 11.00 100.00
12 to 15 ins., sdlgs 12.50 110.00
BLACK HILLS SPRUCE.
4 to 6 ins., sdlgs 5.50 50.00
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8 to 10 ins., sdlgs 11.00 100.00
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6 to 8 ins., X
10 to 12 ins., X 22.50 200.00
COLORADO BLUE SPRUCE.
4 to 6 ins. sdlgs 5.50 50.00
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NORWAY SPRUCE.
6 to 8 ins., sdlgs 5.50 50.00
8 to 10 ins., sdlgs 7.50 70.00
10 to 12 ins., sdlgs 10.00 90.00
4 to 6 ins., X 7.50 70.00
6 to 8 ins., X
WHITE SPRUCE.
4 to 6 ins., sdlgs 4.50 40.00
6 to 8 ins., sdlgs 5.50 50.00
8 to 10 ins., sdlgs 7.50 70.00

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MAGNOLIA SOULANGEANA

Per 10 2 to 3 ft., BR\$12.50	Per 100 \$110.00
3 to 4 ft., BR 20.00	175.00
4 to 5 ft., BR 27.50	250.00
2 to 3 ft., B&B 16.00	140.00
3 to 4 ft., B&B 24.00	210.00
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Heavy, field-grown stock, well budded. Prices F.O.B. our nursery. B&B stock loaded on your truck or for truck or carload delivery. BR stock packed for shipment at no extra cost.

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pecan trees-the kind that really makes catisfied customers. Ask for trade prices

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industry, Michigan department of agriculture, will tell of his experiences relative to the importation of nursery stock. He will be followed by Chalmers Brown, supervisor in charge of classified directory advertising for the Michigan Bell Telephone Co., who will talk on adver-

Dr. H. B. Tukey, head of the department of horticulture at Michigan State College, will offer a lecture on his "Horticultural Flight to Europe," illustrated with color slides he made on the trip. Prof. James A. Brunner, University of Toledo, will follow with a discourse on merchandising and salesmanship. Election of officers will complete the session.

A luncheon for ladies in attendance will be offered Thursday, while the evening will feature the annual past presidents' banquet, with an excellent program of entertainment.

Howard P. Quadland, director of information, American Association of Nurserymen, will address the delegates on February 1 on the subject of "Plant America." Dr. Richard P. White, A. A. N. executive secretary, will speak on the Washington picture and inspire the Michigan contingent to help make the July A. A. N. convention at Detroit one of the best.

NEW JERSEY TO ELECT.

The New Jersey Association of Nurserymen will meet on January 31 at the Hotel Hildebrecht, Trenton. This meeting will be a continuation of the adjourned meeting held at Atlantic City on December 4 and 5, 1951. Each year, the New Jersey group holds a winter meeting at Trenton as a part of New Jersey Farmers' week, sponsored by the New Jersey department of agricul-

In the past, this was a full day's program, but due to the inception of the 2-day educational meeting at Atlantic City, it will consume but a half day, beginning at 1:30 p. m.

Scheduled for the afternoon will be election of new officers and delegates. The nominations committee offered the slate at the Atlantic City gathering.

Next will be two informal talks. the first by Bert Flemer, F. & F. Nurseries, Springfield, N. J. His talk will be based on the seller's side of the nursery industry. R. P. Korbobo, secretary of the organization, will discuss the consumer's attitude. Mr. Korbobo is associate extension specialist in ornamental horticulture at Rutgers University, New Brunswick. His findings will be based on his many personal contacts with con-

SHADE TREES-

OIII	
ELM, American and Chinese, 6 to 8 ft	er 10
6 to 8 ft	15.00
8 to 10 ft	25.00
ELM, American and Chinese,	
10 to 12 ft	40.00
HACKBERRY, 6 to 8 ft	25.00
HACKBERRY, 8 to 10 ft	30.00
LINDEN, American, 8 to 10 ft	30.00
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6 to 8 ft OAK, Chestnut, Red, White,	30.00
OAK, Chestnut, Red. White,	
8 to 10 ft	40.00
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11/4 to 11/2-in, cal	55.00
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11/2 to 13/4-in. cal	65.00
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13/4 to 2-in. cal	75.00
OAK, Pin and Willow,	
2 to 21/2-in, cal	95.00
POPLAR, Bolleana, 6 to 8 ft	15.00
POPLAR, Bolleana, 8 to 10 ft	20.00
POPLAR, Bolleana, 10 to 12 ft	22.50
POPLAR, Lombardy, 5 to 6 ft.	5.00
POPLAR, Lombardy, 6 to 8 ft	6.50
POPLAR, Lombardy, 8 to 10 ft	8.50
POPLAR, Lombarly, 10 to 12 ft.	12.50
TEXAS UMBRELLA, 6 to 8 ft	17.50
	22.50
TULIP TREE, 6 to 8 ft	27.50
TULIP TREE, 8 to 10 ft	
WILLOW, Weeping, 5 to 6 ft	
WILLOW, Weeping, 6 to 8 ft	15.00
WILLOW, Weeping, 8 to 10 ft	
APPLE and PEACH. See our a	
page 52.	u on
1-3	
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12 to 18 ins., well branched, \$47.50 18 to 24 ins., well branched, 57.50

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Propagated 35 years ago. Specimens up to 3½ and 4 feet. Perfectly healthy and symmetrically shaped. Inspection by prospective buyers invited.

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2 MORE FINE NEW HARDY MUMS

Wonderful Companions to Our Famous "GENERAL" Mums

You'll love **LEGIONNAIRE** for its generous display of gay, sparkling, double yellow flowers with a golden heart. **AMVET** will enchant everyone for its superb, pure white, double flowers with delicate yellow inner rays.

Strong Rooted Cuttings (ea. kind) \$30.00 per 100; \$250.00 per 1000.

Pot or Banded Plants (ea. kind) \$6.00 per 12; \$40.00 per 100.

GENERAL

MARSHALL—deep old rose, purple and gold MacARTHUR—glowing coppery-red BRADLEY—apricot, seashell-pink and buff

Strong Rooted Cuttings (ea. kind) \$25.00 per 100; \$225.00 per 1000. Pot or Banded Plants (ea. kind) \$5.40 per 12; \$35.00 per 100.

Very hard, easy to grow, clean, fine for cutting. Large, perfectly formed double flowers from early August to heavy frosts. Cuttings ready after March 1; plants ready after April 1.

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sumers of nursery stock, whom he meets at his lectures to adult groups on landscape design.

The association's treasurer, August Kindsgrab, St. Cloud Nurseries, West Orange, N. J., will present his annual treasurer's report.

Gerard Grootendorst, Gerard Grootendorst Nurseries, Oakland, N. J., president of the association, will preside.

NEW ENGLAND PROGRAM.

Much interesting material for nurserymen will be featured at the meeting of the New England Nurserymen's Association to be held at the Hotel Kenmore, Boston, Mass., February 4, 5 and 6. The meeting opens on the morning of February 4 with a social hour, followed by a luncheon, at which Dr. Richard P. White, executive secretary of the American Association of Nurserymen, will be the speaker.

The convention will be called to order at 2:30 p. m., with an address by association President Luke C. May, Lexington Nurseries, Inc., Lexington, Mass., as the first order of business. Reports of the secretary, the treasurer and various committees will follow, and members of the nominating and auditing committees will be elected. An address by Peter J. Cascio, the Peter Cascio Nursery, West Hartford, Conn., vice-president, American Association of Nurserymen, will conclude the afternoon session.

February 5 has been set aside for an educational program, which will open at 10 a. m. with an address on "Propagations," by Martin Van Hoff, Rhode Island Nurseries, Newport, R. I. The next speaker will be Dr. John C. Shread, Connecticut agricultural experiment station, New

ROSE STOCK for BUDDING

1-year from de-eyed cuttings Well known Welch strain - Grown in Virginia \$35.00 per 1000

CRON'S HARDY BOXWOOD

12 to 15 ins., B&B, \$1.75 each 15 to 18 ins., B&B, 1.95 each F. O. B. Eastville, Va.

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Fine list of common and patented varieties; also our usual fine stock of shrubs, evergreens, shade, ornamental and fruit trees, including Jumbo fruit trees for the retail trade.

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2 to 6-foot Specimens

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Apple Peach Pear Plum Cherry Apricot Figs Grapes Pecans June Bud Peach

Japanese Persimmon Ornamental and Shade Trees

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Camellia Sasanqu Annette. Cinderella. Cleopatra. Maiden's Blush Rosea.							
Texas Star. 8 to 12 ins., 12 to 18 ins.,	liner	8.			 		25.00
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Magnolias. Rustica Rubra. Soulangeana. 8 to 12 ins., 12 to 18 ins., 18 to 24 ins.,	2-yr. 2-yr.	111	nei	76	 		30.00 35.00 40.00
Soulangeana N	igra.						
8 to 12 ins., 12 to 18 ins., 18 to 24 ins.,	2-yr.	111	nei	rs.	 		30.00
Gardenias. Fortunei. Mystery. Radicans. 6 to 8 ins., 8 to 12 ins., 12 to 18 ins.,	liner	B			 		
Ginkgo Biloba. 6 to 8 ins., l 8 to 12 ins., l	iners iners						7.50 10.00
Hex Crenata. Bullata. 4 to 6 ins., lit	ners.						10.00
Rotundifolia. 4 to 6 ins., lin 6 to 8 ins., lin	ners.					**	10.00 12.50
Blicium Anisatum 8 to 12 ins., 12 to 18 ins.,	liner	8					12.50 15.00
Viburnum. Macrophyllum. Odoratissimum. 6 to 8 ins., 1 8 to 12 ins., 1	iners				 		10.00 12.50

The above are excellent liners, heavily rooted and well grown; sure to please



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(Malus Purpurea Eley) Field-grown grafts about I to 2 ft., \$30.00 per 100. We also have Dolgo and Scheidecker Crab, same age and same price. However, they are smaller.

NEWPORT NURSERY COMPANY NEWPORT, MICHIGAN

Haven, on "Nursery Pests and Their Control." Discussions will follow each speaker's presentation.

Ralph M. Fisher, C. R. Burr & Co., Inc., Manchester, Conn., will lead off the afternoon session with a talk on "Shade Trees," to be followed by W. M. Bartlett, Bartlett Gardens, Hamilton, Mass., on "Landscaping." As in the morning, each talk will be open to discussion from the floor. Planning for next year's educational day program will also take place at this session.

The program for February 6 will open with a business session, after which a panel discussion will be held on "Where Is the Nursery Industry Going?" Participants in the panel will include Charles S. Burr, C. R. Burr & Co., Inc., Manchester, Conn.; George Winslow, Winslow Nurseries, Inc., Needham, Mass., and Seth Kelsey, Harlan P. Kelsey, Inc., East Box-ford, Mass. The luncheon speaker for the day will be Nels V. (Swede) Nelson, former Harvard University football star. Officers elected at the morning business session will be formally introduced in the afternoon.

NATORP EMPLOYEES.

Hold Christmas Party.

The W. A. Natorp Co. held its annual Christmas party at the First Stop Inn, Cincinnati, O., December 22, with 72 of the 77 regular employees being present. After a fine turkey dinner, W. A. Natorp presented seven employees of the company with gold watches to commemorate twenty-five years or more of service with the company. Each watch was beautifully engraved. Everybody was presented with an 11pound ham and a bonus check. This has been the custom for many years.

The high light of the party came when Thomas B. Medlyn, vice-president, in behalf of all the men and women of the firm, presented the president, William A. Natorp, with a fine hand-detailed plaque that was specially prepared to commemorate December 22 as his thirty-fifth business anniversary with respect to his leadership and place in the horticultural field. The plaque contained the signatures of all men and women of the firm. Mr. Natorp also was presented with an engraved gold watch from his employees.

After the presentations were made, all joined in the singing of songs and later participated in playing games and enjoying other social events.

In line with the company relations programs of many large corporations, the W. A. Natorp Co. now

NURSERY - GROWN STOCK

Hydrangea Paniculata
Grandiflora. Per 100 Per 1000
Grandiflora. Per 100 Per 1000 6 to 12 ins., 1-yr., C \$ 7.00 \$ 65.00 12 to 18 ins., 1-yr., C 11.00 100.00
12 to 18 ins., I-vr., C., 11.00 100.00
19 to 24 inc 2 vs
well br 15.00
Cornus Florida.
6 to 12 ins., S 3.00 25.00
12 to 18 ins., S 4.00 35.00 18 to 24 ins., S 5.00 45.00
18 10 24 Ins., 5 5.00 45.00 Each
2 to 3 ft., well br
3 to 4 ft., well br
4 to 5 ft., well br
NATIVE SHRUBS AND EVERGREENS
Tsuga Canadensis. Per 100 Per 1000
3 to 6 ins., S\$1.25 \$10.00
6 to 9 ins., S 1.75 15.00
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18 to 24 ins., S 6.00 55.00
Ilex Opaca.
Rhododendron Maximum.
Kalmia Latifolia.
3 to 6 ins., S 2.00 15.00
6 to 9 ins., S 3.00 25.00
9 to 12 ins., S 4.00 35.00
12 to 18 ins., S 5.00 45.00
18 to 24 ins., S 6.50
Cercis Canadensis.
Tilia Americana.
Acer Rubrum.
Acer Saccharum. Each
4 to 5 ft., well br\$0.35
5 to 6 ft., well br
6 to 8 ft., well br
Azalea Calendulacea.
Azalea Nudiflora.
12 to 18 ins., well br
18 to 24 ins., well br
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Spring, 1952

Thurlow Weeping Willow, Lombardy Poplar, Silver Maple, Norway Maple and B.D.F. Crab.

Apple, 2-yr.; Pear, 2-yr.; Montmorency Cherry, 2-yr., all

Montmorency, 1-yr. 900 5/16in. and 500 18 to 24 ins.

Evergreens and Shrubs.

Oldest Nursery in Indiana. Established 1875

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Wholesale growers of the best Ornamental Evergreens Deciduous Trees Shrubs and Roses

Write for our current trade list.

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Headquarters for Small Fruit Plants SPECIAL for SPRING PLANTING -100.000 -TRANSPLANTED BERRY PLANTS

Red, Black and Purple Raspberries, Blackberries, Boysenberries, etc.

Safest for General Planting and Customer Satisfaction

EVERGREENS—ORNAMENTAL SHRURS VINES—FRUIT TREES—LINING-OUT STOCK

Red Lake Currants Downing Gooseberries Grapevines, 2-yr.

Asparagus—Rhubarb—Sage Horse-radish Roots and Cuttings Boysenberries—Common and Thornless

Let us Quote on Your Present Needs-Send for Complete Trade List of Above Items

SPECIAL ITEMS For Quick Sale in Quantity Lots At the Following Low Prices

Each 5000 Biota orientalis, per 1000 9 to 12 ins...\$0.10

3000 Boxwood, Df. Dark Green, 6 to 9 ins... .25

9 to 12 ins... 1500 Thuja woodwardi

(Globe), 2-yr., open field-grown specimen 12 ins., B&B. . 1.25 9 to 12 ins., B.R. .50 6 to 9 ins., B.R. .35

5000 Clematis paniculate

Sweet Autumn Clematis Vine), I-yr., No. I-yr., Med... I-yr., Sdlg. . . .15

5000 Euonymus coloratus (Red Wintercreeper) 2-yr., field-grown. .

3000 Kerria japonica pleniflora (Dbl. Globe Flower), 2-yr., 2-in. pot .081/2

10,000 Kolkwitzia amabilis, Hvy. Tpl., 12 to 15 ins. .15 Hvy. Tpl., 9 to 12 ins. .121/2 Hvy. Tpl., 6 to 9 ins. .10

1000 Salix Caprea (French Pussy Willow), 2 to 3 ft........25 3 to 4 ft......30

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provides each newcomer among its employees with an attractively printed 4-page introduction to the company family, including an outline of the benefits received by employees. The opening paragraphs lay emphasis on the reputation and prestige of the company and details its places of business. Attention is called to the large number of employees which have been with the firm a long time, eight over twenty-five years, seven from fifteen to twenty-five years, eleven from ten to fifteen years and sixteen from five to ten years. A list of the supervisory members of the organization is given, from which information or help may be obtained.

Benefits for Natorp employees are outlined in detail, including vacations, overtime pay, free medical and legal service, Christmas bonus, discount on purchases of the company's products, savings club and hospitalization and surgical care at small cost.

This booklet was recently prepared in accordance with the results of a national poll taken by the Council for Labor Relations, which reported that most important considerations to employees were, in order, working for a company with a high reputation, being treated fairly and with consideration, and the amount of pay received.

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Fach Each Per 10 Per 100 5 to 6 ft., whips......\$2.25 \$2.00 2.50

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We have a surplus of the following sheared, well developed stock.

		Each
5000	Juniperus Pfitzeriana, 15 to 18 ins	\$1.75
1250	Juniperus Excelsa Stricta, 15 to 18 ins	1.00
	Juniperus Excelsa Stricta, 18 to 24 ins.	
1600	Juniperus Excelsa Stricta, 3 to 4 ft	2.65
	Juniperus Andorra, 15 to 18 ins.	
	Juniperus Andorra, 18 to 24 ins.	
	Juniperus Sabina, 15 to 18 ins	
	Juniperus Densa Glauca, 2 to 3 ft	
	Juniperus Scopulorum, seedlings, 2 to 3 ft	
	Bonita Arborvitae, 18 to 24 ins.	
3000	Berckmans Arborvitae, 12 to 15 ins.	.75
	Berckmans Arborvitae, 15 to 18 ins.	
4000	Nandina Domestica, 15 to 18 ins.	.85
1800	Nandina Domestica, 18 to 24 ins	1.10
	Nandina Domestica, 24 to 30 ins.	

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Write for Price List and Planting Guide.

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(Wholesale Only)

SELLING OUT. Specimens 20 x 16 ins. and up; also very large specimens. No smaller stock left. Special discounts on earload or truckload orders. Prices on request. Inspection invited.

BOXWOOD GARDENS



OBITUARY

C. H. Andrews.

C. H. Andrews, partner in the Andrews Nursery Co., Faribault, Minn., died December 31, 1951, after a lingering illness. He was president of the Minnesota State Nurserymen's Association in 1929 and 1930.

His father, John P. Andrews, founded the business in 1872, and the management was taken over in 1918 by Howard Andrews, as he was generally known, in partnership with his two brothers, John K. and Rufus H. Andrews. In 1941 Kimball D. Andrews and John Dixon Andrews, the sons of John K. Andrews, became partners. Their father died in 1945.

The business was developed by succeeding generations until it became one of the largest and foremost in the north central states, doing a wholesale and retail mail-order business. Development and propagation of fruits and berries to withstand the severe winters of the state added to the reputation of the firm.

The funeral was held January 3 at the Third Congregational church, Faribault, and was attended by a considerable number of nurserymen from Minnesota and adjacent states.

Louis Schnitzspahn.

Louis Schnitzspahn, 59, nurseryman and florist of Bound Brook, N. J., died suddenly in his home December 25. Mr. Schnitzspahn, who was born in Germany, came to this country fifty years ago. He was connected with the family nursery business, located on Greenbrook road, Greenbrook township, and was in charge of the business for several years after the death of his father. For the past six years he had been associated with his brother, Henry A. Schnitzspahn, in the florists' business.

Surviving are a son, Roy Louis Schnitzspahn, and a daughter, Mrs. Theodore Ezyeske, both of Highland Park, and three brothers and a sister.

Fred W. May.

Fred W. May, operator of the May Nursery Co., Yakima, Wash., died December 16 at the age of 72. Death resulted from complications following surgery.

Mr. May was born at Oshawa, Ontario, Canada, and went from there to St. Paul, Minn., where he was employed in the seed and nursery business before coming to Yakima in 1909. There he was asso-

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BRIDGMAN, MICHIGAN

Telephone 22

SMALL FRUITS

These prices cancel all previous lists and are subject to change without notice. 250 or over at 1000 rate. Boxing at cost. All prices F.O.B. Bridgman. Usual terms.

GRAPES Per		Per			er 1000
Concord. 2-yr., No. 1	100	1000 \$100.00	Eldorado. Transplants	7.50	\$ 65.00
Concord. 1-yr., No. 1		80.00	Eldorado, No. 1, R.C	5.50	45.00
Niagara, 2-yr., No. 1		110.00	Alfred. Transplants	7.50	65.00
Niagara, 1-yr., No. 1	11.00	90.00	Alfred. No. 1, R.C	5.50	45.00
Catawba. 2-yr., No. 1	13.50	110.00	Early Harvest. Transplants	7.50	65.00
Catawba, 1-yr., No. 1	11.00	90.00	Early Harvest, No. 1, R.C	5.50	150.00
Fredonia. 2-yr., No. 1	13.50	110.00	Ebony King (New). Transplants	12.00	100.00
Fredonia, 1-yr., No. 1	11.00	90.00	Ebony King (New). No. 1, R.C	12.00	100.00
Delaware, 2-yr., No. 1	17.00	140.00	RED RASPBERRIES		
Delaware. 1-yr., No. 1 1.65	13.50	110.00	Latham, Transplants	9.00	80.00
Caco. 2-yr., No. 1	18.00	****	Latham, 1-yr., No. 1	7.50	65,00
Caco. 1-yr., No. 1	12.00		Chief. Transplants	8.50	75.00
Van Buren, 2-yr., No. 1	30.00	250.00	Chief, 1-yr., No. 1	7.00	60.00
Van Buren. 1-yr., No. 1	18.00	150.00	Sunrise. Transplants	8.50	75.00
Portland. 2-yr., No. 1		140.00	Sunrise. 1-yr., No. 1	7.00	60.00
	13.50	110.00	Indian Summer. Transplants	9.50	85.00
CURRANTS			Indian Summer, 1-yr., No. 1	8.00	70.00
Wilder, 3-yr., heavy 1.80	15.00	130.00	St. Regis. Transplants	7.00	60.00
Wilder. 2-yr., No. 1	12.00	100.00	St. Regis. 1-yr., No. 1	6.00	50.00
Wilder, 1-yr., No. 1	8.00	60.00	BLACK RASPBERRIES		
Red Lake, 2-yr., No. 1	16.00	140.00	Cumberland, No. 1, tips	5.00	40.00
Red Lake, 1-yr., No. 1 1.45	12.00	100.00	Logan. No. 1, tips	5.00	40.00
BED BUURABD			Morrison, No. 1, tips	5.50	42.50
RED RHUBARB				0100	24100
Canada Red. No. 1 divisions 4.80	40.00	350.00	PURPLE RASPBERRIES		
McDonald. No. 1 divisions 3.60	30.00	250.00		11.00	100.00
HORSE-RADISH			more and all engineers are a commentation and a com	6.50	55.00
			DEWBERRIES		
Cuttings. 4 to 5 ins	5.50	20.00	Lucretia. Transplants	7.50	65.00
whole Roots	5.50	40.00	Lucretia, No. 1. R.C	5.00	40.00
BLUEBERRIES			ASPARAGUS		
Prices of Rancocas, Rubel, Jersey					
Per	Per	Per	Paradise and Washington	4.00	00.00
Each 10	100	1000	3-yr., heavy	4.00	30.00
2-yr., 9 to 12 ins., bearing age \$0.40 \$3,50			2-yr., No. 1	2.50	20.00
	47.50	450.00	1-yr., No. 1	2.00	15.00
4-yr., 18 to 24 ins., bearing age75 7.00	67.50	650.00	Whole Roots VICTORIA RHUBARB		
			1%-in. and up	8.00	75.00
GOOSEBERRIES	Per 10	Per 100	1 to 1%-in	5.50	50.00
Downing, 2-yr., No. 1		\$35.00	% to 1 -ip	4.00	35.00
Houghton, 2-yr., No. 1		25.00	% to %-in	3.00	25.00
		cial Quota	tions on Quantity Lots.		

ciated with the late I. H. Dills for a time in operation of the Yakima & Columbia River Nursery Co. He later formed the May Nursery Co., of which he was president and manager. He was active in civic affairs, notably in the development of Yakima parks, and belonged to a number of fraternal organizations.

He was instrumental in introducing evergreens to brighten the winter landscape in the area.

Mr. May is survived by his sister, Mary Jane May, with whom he lived, and a nephew, William C. Wardell, also of Yakima. His wife, Mrs. Inez May, died in 1950.

Hugo Kind.

Hugo Kind, who for the past forty-four years operated Shady Lawn Nursery, Hammonton, N. J., died recently. Mr. Kind was also the operator of a flower shop.

George C. Klehm.

George C. Klehm, Arlington Heights, Ill., oldest of Illinois nurserymen, died at his home December 22, at the age of 89. With his brothers, Charles and Henry, he succeeded their father in the nursery, the latter established at Arlington Heights in 1854. George continued in the nursery business, while Charles largely Wholesale

Since 1918

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Best varieties from fully inspected plantation.

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Certified BLUEBERRY PLANTS

One-year rooted cuttings, \$8.00 per 100; \$70.00 per 1000, 10 varieties.

A. G. AMMON
CHATSWORTH, N. J.

ROSES 30c each

Write for a variety list.

M. OLIVER TYLER, TEXAS

APPLE AND PEACH

APPLE

jumbo		\$6.50	\$55.00
2 and 3-yr., 11/16 5 to 7 ft			40.00
2-yr., 9/16-in., 4 2-yr., 7/16-in., 3	to 4 ft	3.50	$35.00 \\ 30.00$
1-yr. Whips. Ask Note: On lots of Want List for Qu	300 or more	, send	your
*Anoka	*N. W.		ing

**Nonum

**Cortland

**Deliclous,

**M. B. Twig

**McIntosh,

**Meintosh,

**Meintosh,

**Meintosh,

**Trilliand

**Trillian

NOTE: Varieties indicated by (*) aviable in 3-yr, only.

*N. W. Greening
*Paragon Winesap
Bed Gravenstein
Rome, Dbl. Red
*Spy, Dbl. Red
*Stayman,
Dbl. Red
Summer Rambo
*Summer Vellow
Deliclous
*Virginia Beauty
Winesap
*Winter Banana

Per Per

Winesap Winter Banana Yellow Delicious Yellow Tree

MULTIPLE VARIETY APPLE TREES

Grafted to varieties ripening from the earliest to the latest, including such Apples as Yellow Transparent, Summer Rambo, Yellow Delicious, Red Delicious, Stayman.

Cious, Stayman.

5-In-1, 2-yr., 3 to 5 ft... \$12.50 \$100.00

4-In-1, 3-yr., 3 to 5 ft... 10.00 \$80.00

3-In-1, 3-yr., 3 to 5 ft... 8.00 70.00

PEACH

11/16.in 5	to 7 ft	Per 10	Per 100
9/16-in., 4	to 6 ft.	5.50	40.00
		4.50	30.00
		heavy 3.00	22,00
2 to 3 ft		I II Hole	17.00

Belle of Ga. Brackett Elberta Gage Elberta Golden Jubilee Halehaven

J. H. Hale Redhaven Shipper's Red Sullivan's Early

SHADE TREES, See our ad on page 46. Write for quotations on other varieties of Fruit Trees, Nut Trees, Shrubs and

WAYNESBORO NURSERIES

WAYNESBORO, VIRGINIA

CHERRY TREES

Two-year, large Montmorency. Napoleon, Windsor and Black Tatarian.

For complete list write

EDWARD BACON & SON Growers of Fruit Trees

Since 1882 DANSVILLE I, NEW YORK

SMALL FRUIT PLANTS

We again offer our complete line of

Grapes

Currants

Berry Plants

FOSTER NURSERY CO., Inc. 69 Orchard St. Fredonia, N. Y. specialized in growing peonies for cut flowers.

George Klehm had been village trustee for 30 years and school trustee for 26 years. He was elected president of the Illinois State Nurserymen's Association in 1922. Surviving are his brother Charles and two daughters, Henrietta and Lillian.

CASCIO STARTS COURSES IN ADULT EDUCATION.

Recent years have seen the spread of courses in adult education in colleges and in high schools throughout the country. Few, however, have been the courses of this kind related to horticulture.

Alert to advance his calling, Peter Cascio, proprietor of the Peter Cascio Nursery, West Hartford, Conn., and vice-president of the American Association of Nurserymen, last fall wrote to Norman Hunt, director of adult education at the William Hall high school, West Hartford, to suggest a course in landscaping. Obtaining an affirmative response, he offered either a ten or twelve weeks' course. The enrollment of 96 was larger than that for any other adult course at the West Hartford school: no classroom was large enough, and the school auditorium was used.

Again this year, Mr. Cascio was invited to give the course, and at about the same time the secretary of the Y.M.C.A. evening school at Hartford inquired as to the possibility of Mr. Cascio's giving a course there, among its hobby courses.

Last year at the West Hartford school, Mr. Cascio himself gave all but three of the lectures, which three were handled by men in his organization. He started with no set program, but gave a talk and demonstration on pruning. The topics in which the class was interested determined the subjects of the subsequent lectures. He did include a talk on climate control and, after attending the short course at Ohio State University, returned to give a talk on new lawn grasses and turf management.

The colored slides and talks which Mr. Cascio had previously presented before garden clubs and other groups were a great help. By getting out a set of slides and brushing up on one of his talks, he was ready for a class

Adding slides and demonstrations. he held the last class, on propagating, at the nursery. He demonstrated sowing seeds, grafting and layering, and making softwood and hardwood cuttings. Each pupil was asked

FRUIT TREES

Apple, I and 2-yr., Dwarf and Standard

Pear, I and 2-yr., Dwarf and Standard.

Plum, I and 2-yr.

Sweet and Sour Cherry. I and 2-vr.

Quince, 2-yr.

Apricot, 2-yr.

Peach, 1-yr.

Write for our wholesale list.

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We do the work!

Packing out service on a guaran-

teed basis.
4-color, 4-page beautiful folder with YOUR NAME.

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OUALITY JUNIPER GRAFTS

For spring, 1952, delivery, from 21/2-in. pots on Virginiana understock. We are grafting Juniperus Virginiana Canaerti, Glauca, Pyramidiformis (Dundee), Burki and Keteleeri.

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SOUTHERN YELLOW PINE

Seedlings, Collected.

One and two-year, the best that can be grown. Per 1000 18 to 24 ins......\$20.00

6 to 12 ins...... 10.00 We can supply these pine seedlings in

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McMinnville, Tenn.

Please American Nurseryman when writing

to bring a cigar box, fill it with sand, make cuttings and take them home.

Mr. Cascio's plans for the coming year are to give two of the classes himself, have his designer give one and his landscape superintendent two, while three local nurserymen discuss the topics at the other three classes. Peter Cascio and his superintendent will be present at all classes except when his association duties take him out of town.

His tentative outline for an 8-week course in landscaping includes two opening classes on the homesite. This discussion will cover picking out a lot to build on, operations before digging the cellar for the house, rough grading, finish grading, lawn seeds and fertilizers, soils and manures.

The remaining six topics for classes include design of the small home grounds; planting the home grounds; shrub pruning; trees, their landscape uses, spraying and pruning; shrubs, evergreens and perennials, and climate control by use of plants.

Each class he proposes to start with an identification test, to be followed by the showing and description of ten shrubs, trees and evergreens, which will be added to the following week's test. There will be a question box, and a discussion of the previous week's questions will follow. Slides or movies will be shown at practically every class to supplement the lecture.

CONVENTION TIME.

[Continued from page 6.]

in his territory as he can the coming year.

Because of the number and extent of the reports of such conventions in the American Nurseryman, necessarily space is devoted to matters of wide interest and general importance. That is another reason for attendance-to obtain more detailed contact with the local affairs of your association. Those readers who are forced to stay at home, however, will find an abundance of informative material presented in these reports, whether they cover meetings in their section of the country or another. Scan them closely, and you will be well repaid.

Attend the conventions in your territory if you can. If not, you will find the reports not only informative as to trade activities, but valuable in information useful to your individual business.

OPENED RECENTLY at Dallas, Tex., is the Green Thumb Nursery.

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WILL COMPARE
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2½-inch

DEEP POT

Last winter's potting, which means well developed root system.

Price includes packing in paper pots.

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CUT-LEAF WEEPING BIRCH

(Betula Laciniata on White Birch) Well branched, very fibrous roots.

			Each	Per 10	Per 100	Per 1000
3	to	4	H	\$2.00	\$1.80	\$0.80
4	to	5	ft	. 2.25	2.10	1.00
5	to	6	ft	2.50	2.30	1.70
6	to	7	ft	2.60	2.50	1.90
7	to	8	ft	2.80	2.70	2.00
R	to	10	ft	3.10	3.00	2.60

NEW OTTAWA FLOWERING CRABS

Amisk, pink; Arrow, purple; Geneve, dark red; Mekemik, rose; Scugog, purple; Sissipuk, rose and white. All trees well branched.

Each Per 10 Per 100 Per 1	000
18 to 24 ins\$0.55 \$0.50 \$0	.40
2 to 3 ft	.55
3 to 4 ft	.70
	.85
5 to 6 ft 1.25 1.10 1	.00
6 to 8 ft 1.35 1.25 1	.15

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x 187 MILTON, NEW HAMPSHIRE

Maurice C. Ravensberg Boskoop, Holland

Reliable firm for general Nursery Stock and Belgian plants. Catalog on application.

LETTERS FROM READERS

HISTORY OF BEACH PLUM.

The notes on the cover illustration in the December 1 issue of the American Nurseryman described Prunus maritima as having been known since 1818. This information stimulated horticulturist George Graves to delve further into the history of the plant and he submits the following interesting data on it:

"A glance at the record reveals that 1818 is a rather late date in the history of the beach plum. Actually, Prunus maritima was about the earliest known of the Atlantic coastal plants, situated as it was to attract the attention of anyone who came ashore almost anywhere in these parts.

"The plant was reported by da Verrazano in 1524, by Henry Hudson in 1609 and by others. As early as 1714, John Lawson advised that 'they grow anywhere if planted from the slip or stone.' Manasseh Cutler's remark of 1784 that the fruit of some of the beach plums native to Plum Island, Massachusetts, was 'well tasted' when fully ripe, seemed to have referred to some of the very stock from that island which has in recent years been named and placed in cultivation, particularly the variety Safford.

"The first publication of the name 'Prunus maritima' was in Hum-phrey Marshall's 'Arbustum Americanum' in 1785. To Marshall, the common name was 'sea side plumb.' Thus Marshall's publication took priority over that of F. W. J. von Wangenheim, who listed the same name in his publication of 1787. The latter seems to have been a Hessian mercenary who picked up the beach plum on Long Island, New York, and took it back to Germany with him after the American Revolution. It was from seedlings of von Wangenheim's stock that the plant got into European cultivation and gave botanists a chance to give it at least five other botanical names prior to 1818. The oldest known illustration was published in Germany in 1825. "George Graves.

"Vineyard Haven, Mass."

IMPROPER PLANTING OF ROSA MULTIFLORA.

Rosa multiflora has been given a great deal of publicity during the past few years in praise of its qualities for making a perfect hedge. Each time I learn of someone's buying these roses and planting them. I think about what is going to happen in a few years, after the Rosa multiflora becomes established on the

property.

Nurserymen who know Rosa multiflora, and there are a vast number who do, know that it grows to a height of fifteen feet and a width of twenty feet or more. Until recently it was the practice of nurserymen to destroy stray plants of Rosa multiflora and those which failed to thrive after a good hybrid rose was grafted on the roots. When a few stray plants did escape notice for a short while, men were put to the task of digging them out upon discovery, before they became a menace. Yet we now are offering the plant for sale to retail custom-

I wonder what the public will think of the nursery industry when the multiflora rose has become established, with growths too thick for constant clipping. It has been our experience that the more this rose is cut, the heavier the canes become. Then, too, there is always the danger of someone's being injured by the thorns. Thorn scratches can cause infection which is painful for several days, and the thorns are a special danger to children who may play near the hedge. Clothing can also be torn beyond repair.

There is a planting of Rosa multiflora only a few miles from our nurseries. I have often looked at the unsightly thicket, nearly forty feet wide and twenty feet high, trying to imagine it on a private property, especially a small lot. It certainly would not increase public confidence in the nurseryman who sold it.

H. J. Hohman. Kingville, Md.

DO YOU KNOW?

Perhaps some reader can advise in response to the subscriber who sends in this question: "Do you know of any concern that manufactures a rotary tiller to hook to an Allis-Chalmers Model G tractor to be driven by the tractor's power?"

ANNOUNCEMENT has been made by Jane C. Grant and W. B. Harris, owners of White Flower Farm, Litchfield, Conn., that John W. Tonkin has been appointed general manager of the farm with his wife, Marjorie, as business manager. Mr. and Mrs. Tonkin were formerly employed at Shawnee Nurseries, Shawnee, Kan.

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Woodruff will do more for its dealers than any other seed

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Write today for the Woodruff dealership prospectus - it will tell you more about greater lawn seed sales for you.

MILFORD CONN.



TOLEDO. OHIO

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SACRAMENTO

F. H. WOODRUFF & SONS, INC , AN-1 MILFORD, CONNECTICUT

Please send Woodruff dealership prospectus.

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he Homestead Nurseries HGBenckhuusen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials - Quality Stock in All Leading Varieties. Trade catalog on request.

GULDEMOND BROS. Nurserymen

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CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary
304 MITAU BUILDING SACRAMENTO 14, CALIF.

SAN JOAQUIN PARTY.

The twelfth annual Christmas party of the San Joaquin chapter of the California Association of Nurserymen was held at the Fort Washington Golf Club near Fresno. The buffet dinner of chicken was enjoyed by the record attendance of seventyeight members, wives and guests.

The Christmas party committee, headed by Louise Whitehorn, assisted by Inez Oliver, did a wonderful job in creating an atmosphere of true Christmas spirit. All ladies present received clever umbrella favors, fashioned from linen handkerchiefs and candy canes.

President George Goodhue, Goodhue Gardens, Fresno, was master of ceremonies. Mr. Goodhue dedicated the Christmas party in honor of the past presidents of the chapter, introducing them from the floor in order of their service.

Ronald Gallegos, baritone, captivated the group with his wonderful voice. Mr. Bock entertained with classical compositions at the piano; then he built up clever compositions when given several notes at random, as suggested by telephone numbers. Both musicians led the group in Christmas songs.

Ivan L. Stribling, Sec'y.

LOS ANGELES PLANS FORUM.

Continuing the planned program of beneficial information for the retail nurseryman, Robert E. Weidner, Buena Park Greenhouses, Buena Park, program chairman of the Los Angeles chapter of the California Association of Nurserymen, has announced a forum entitled "Advertising for Dollars" as the theme of the meeting to be held January 23.

November's gathering began the series with the subject "Purchasing to Make Money," with J. W. Gibbs, Winsel-Gibbs, Los Angeles; John Beach, Descanso Distributors, La Canada; G. R. Fuller, Bandini Fertilizer, and Charles Crum, Rosedale's Nurseries, Monrovia, leading the discussion. Mr. Crum's outline of his firm's policies on retail inventory control was particularly interesting.

The Christmas season was highlighted by the chapter's annual dinner dance on the night of December 14. Some 250 members and friends of the group gathered at the Altadena Country Club amid colorful yuletide decorations. Led by master of ceremonies Ernie Bordier, Bordier's Nursery, Covina, they enjoyed a turkey dinner, followed by singing and dancing in the ballroom of the club. F. C. Tomlinson, Select Nurseries, Whittier, was general chairman, with the entire board of directors aiding with the arrangements

Paul Stixrud, Percey's Nursery, Glendale, will act as moderator for the January meeting discussion of "Advertising for Dollars." Members have been requested to submit their problems in the form of questions to Carl Zangger, Tuttle Bros. Nurseries, Pasadena, and Roger Rodecap, Peerless Nursery, Huntington Park, who will then ask for advice from Opal Waters, of the Los Angeles Times Home magazine staff,

and Paul Jordan, of the Jordan Advertising Agency. This should be a rare opportunity for the retail nurserymen.

Ed. McNeill, Publicity.

REDWOOD CHAPTER PARTY.

Santa Claus took over the December 11 meeting of the Redwood Empire chapter of the California Association of Nurserymen. There were thirty-five members and guests present. The setting was the beautiful Santa Rosa Golf and Country Club.

Chairman Harold Prickett and Mrs. Prickett, of Prickett's Nursery, acted as host and hostess for the evening. After a delicious steak and chicken dinner, Santa Claus, Don Perry, distributed the gifts. Music and singing led by a 1-man band rounded out the program.

State President Herman Sandkuhle surprised us with an unofficial visit and gave us a brief outline of the association's program for 1952.

Other visitors for the evening were Mr. and Mrs. Snellgrove, Cloverdale Nursery. Mr. Campiglia, father of Tony Campiglia, the Flower Shop, Santa Rosa, was also a welcome visitor. It was hard to distinguish father from son.

The evening concluded with many

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cries of Merry Christmas and Happy New Year.

The New President.

The chapter will be under the able leadership of President James Gaddis, Gaddis Nursery, Santa Rosa, for 1952. Mr. Gaddis was elected in September, 1951.

Jim was born at Pontiac, Mich., in 1922. The family moved to Santa Rosa in 1926. He attended the Santa Rosa schools and in 1942 enlisted in the navy to serve in the south Pacific.

After discharge from the navy Jim continued his studies at the Santa Rosa Junior College and the University of California at Davis.

Upon completion of his studies at Davis he returned to Santa Rosa to marry the former Barbara Baker. Their family now consists of two sons, Billie, 3 years, and Roger, 3 months.

Mr. Gaddis is associated in business with his father, James Gaddis, Sr., in a wholesale bedding plant nursery, which was established in 1926. Jim has been active in the wholesale bedding plant marketing agreement survey, which is under way in California at the present time. Hugh Wallace, Sec'y.

CALIFORNIA NOTES.

The adult education class in landscape gardening at the San Mateo Junior College recently held a 2hour session studying plant ma-terials at the Christensen Nursery, Belmont. The class, under the leadership of its instructor, Allan H. Reid, landscape architect, then visited home grounds in the area.

The expanding bureau of nursery service, a section of the state department of agriculture, has announced a number of personnel changes. These include the assignment of James J. Kalstrom as district nursery inspector for the northern coastal counties and William A. Bottel in the San Joaquin valley. Stanley M. Mather, who was district inspector in the northern coastal counties, has been transferred to Sacramento, where he will assume the duties of assistant supervisor of nursery service. This is the position left vacant when Wray F. Hiltabrand was promoted to head the nursery service last July.

The San Mateo Rose Society has announced its meeting program for 1952. Nurserymen included are James H. Wilson, Peters & Wilson Nursery, Millbrae, whose subject will be "How to Plant Roses"; Clyde H. Stocking, Stocking Rose Nursery, San Jose, "Grooming Roses for Ex-

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hibition," and J. R. Crombie, Crombie Nursery, Oakland, "Roses in Containers and How It Is Done.

Edward Orack, the Garden Shop, Burlingame, was guest speaker at the December meeting of the San

Mateo Rose Society.

Kurt W. Schmidt, El Padre Nurserv & Florist, San Mateo, is building a 20x60-foot warehouse. It will be used for the storage of bulky items, such as fertilizers, and as a display room for power-driven garden equipment.

The Central and the Peninsula chapters of the California Association of Nurservmen held a joint meeting and Christmas party at the Peninsula Golf and Country Club, San Mateo. More than 150 members and their wives had an enjoyable evening, with professional entertainment, music, dancing and the awarding of prizes with the holiday motif. William McGraw was master of ceremonies, and William Schmidt. Schmidt Nursery, Palo Alto, chair-

There are over 200 adults attending the Palo Alto gardening classes this fall and winter. Albert Wilson heads the instructional work and has as guest speakers members of the horticultural industry from the area. For the coming sessions these speakers will include Maunsell Van Rensselaer, director, Saratoga experimental gardens, Saratoga, whose subject is "Native Plants in the Home Garden"; James S. Kerr, Kerr-Langen Seed Co., San Mateo, "Seeds, Plants and Garden Techniques"; L. C. Barnard, county agricultural director, Santa Clara county, "Grafting Trees in the Home Garden," and Toichi Domoto, Domoto Nursery, Hayward, "Camellias "

Frank Cuthbertson, Ferry-Morse Seed Co., Mountain View, developer of the Cuthbertson strain of sweet peas, is recovering from a heart attack

Adrian J. Schoorl has resigned his position as seed salesman to the greenhouse trade for the Hallawell Seed Co., San Francisco, and is now operating as an independent seed broker there. He advises that his son has recently been admitted to the California bar, being one of the relatively few who passed the examinations this year. His daughter, Marjorie, recently announced her engagement to Anthony Diepenbrock, also a newly admitted member of the California bar.

The south bay area nursery inspectors have organized their own group, the purpose being largely to

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discuss nursery inspection problems among themselves and to pass on to each other methods of handling unusual situations. It is hoped, too, that by becoming better acquainted with each other many intercounty nursery inspection problems can be settled before they arise. This group is similar to one of north bay area nursery inspectors which was formed about two years ago. The counties included in the south bay group include San Francisco, San Mateo, Santa Cruz, Monterey, San Benito and Alameda. President of the group is Clarence Sill, San Mateo county: vice-president, Donald Thomas, San Mateo county, and secretarytreasurer, Ted Monez, Santa Clara county. For the present, it is planned that meetings be held once a month, all in the courthouse at San Jose. W. B. B.

Book Reviews

CONTROL OF PLANT PESTS.

A new, revised edition of "Spraying, Dusting and Fumigating of Plants," by Walter S. Hough, of the Virginia agricultural experiment station, and A. Freeman Mason, author of the 1928 edition of the same book, has been published by Macmillan Co. at \$12.50 per copy.

The two authors, both outstanding authorities, have divided their book into two parts. Part I, "Principles," contains a brief history of the development of pest control, including discussions of the more important insecticides, fungicides, herbicides and other materials used in protecting crops. Part II, "Applications," is a systematic treatment of all the important plant pests and diseases, with a description of each and keys for diagnosing all kinds of plant troubles.

Hundreds of photographs, charts, diagrams and drawings are used through the book's 726 pages, while the text is concise and easy to understand. References are included with each of the twenty-one chapters, and the book contains a complete author index as well as a general index.

PLANT NUTRITION.

"Mineral Nutrition of Plants," a collection of papers presented at a recent symposium on the subject at the University of Wisconsin, is now available in book form. The volume is published by the University of Wisconsin Press at \$6, containing

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BIRCH Per 10 Per 10					
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4 to 5 ft., br\$0.65 \$0.66					
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Canoe or Paper (Betula papyrifera).	5 to 6 ft., br.,				
Clump Form	low-headed 1.35 1.25				
(Three or more stems)	4 to 5 ft., br.,				
3 to 4 ft., clump form80 .7!	low-headed 1.20 1.10				
2 to 3 ft., clump form65 .60					
Two main stems with other smaller	MALTE (VCEL)				
stems at the base of the tree.	Norway (Acer)				
4 to 5 ft	One-year whips, 3-year roots;				
3 to 4 ft	once transplanted.				
2 to 3 ft	Each Each Each Each				
	100 to 250 to 1000 to 2500				
European White (Betula Alba)	250 1000 2500 and up				
6 to 8 ft., br 1.25 1.10					
4 to 5 ft., br					
3 to 4 ft., br					
European White, Clump Form	— Each —				
(Three or more stems)	Per 10 Per 100				
6 to 7 ft., clump form. 1.65 1.50	Red (Acer rubrum)				
5 to 6 ft., clump form, 1.35 1.25					
Two main stems with other smaller	once transplanted.				
stems at the base of the tree.	5 to 6 ft., whips\$0.90 \$0.85				
8 to 9 ft	4 to 5 ft., whips80 .75				
7 to 8 ft 1.60 1.50	3 to 4 ft., whips				
6 to 7 ft	HONEYLOCHET (CI-4:4:1-1				
5 to 6 ft	HONEYLOCUST (Gleditsia)				
4 to 5 ft	Thornless (G. triacanthos inermis)				
3 to 4 ft	7 to 8 ft., whips 1.10 1.00 6 to 7 ft., whips 1.00 .90				
2 to 3 ft	a re company of the c				
LM, Chinese (Ulmus pumila)	5 to 6 ft., whips85 .75				
10 ft. up, 11/4 to 11/2-in.	LOCUST (Robinia)				
trans 1.65 1.50					
8 to 10 ft., 1 to 11/4-in.,	6-ft. stems, No. 1.				
	1 11 11 1 000 000				
trans 1.35 1.20					
6 to 8 ft., 3/4 to 1 -in., trans. 1.00 .90	Pink-flowering Moss (Robinia hispida)				
trans					
	41/2-ft. stems, No. I. budded heads 2.25 2.00				
trans	budded heads 2.25 2.00				

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COVER ILLUSTRATION.

Prunus Glandulosa Sinensis.

Prunus glandulosa, the almond cherry, has been a common shrub in our gardens in the past, but its popularity seems to be waning. This is undoubtedly because the plant has little ornamental value except its flowers

Prunus glandulosa is native of central and north China and Japan and was introduced in 1835. The generic name, prunus, comes from the ancient Latin name, Pru-nus. Glandulosa, the specific name, refers to the glandular characteristic of the leaves, and sinensis, the name of the variety, means Chinese. There are several varieties of Prunus glandulosa, among them alba, the whiteflowered form of the type; rosea, the pink-flowered form of the type; albiplena, the double, white-flowered variety, and sinensis, the double, pink-flowered variety.

Prunus glandulosa and its varieties are upright-spreading shrubs, reaching a height of about six feet at maturity. Because the stems are relatively short-lived, and the plants are susceptible to borers, necessitating considerable pruning, plants are usually smaller than the size given above. They are often sparsely branched and leggy.

The leaves are toothed, lanceshaped, about two and one-half to three inches in length and borne alternately on the branchlets. There is no autumn foliage color of any importance. The plants bloom in late April to early May before the leaves develop, and the variety sinensis has small, double, pink flowers

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borne abundantly in small clusters along the spreading branches. The fruit of the species is red, cherrylike and about one-half inch in diameter.

The almond cherries can be grown in any soil, but they grow best in a light, well drained location with a sunny exposure. No difficulty is experienced in spring transplanting of these shrubs. Propagation is usually accomplished by budding, but softwood cuttings can be used as a means of multiplication.

Since plants of Prunus glandulosa sinensis are of little commercial value except in flower, they are best used in border plantings, where they will not be too objectionable. L. C. C.

SPONSOR NATIVITY SCENE.

Hillenmeyer Nurseries, Lexington, Ky., sponsored a life-size Nativity scene in a barn near the nursery during the pre-Christmas season. Attention to the scene was attracted by a 5-foot electric star installed over the barn. The display included mannequins of Christ, Mary and Joseph, and the Wise Men. An added touch of realism was the presence of live farm animals in stalls near the manger.

The entrance to the barn was flanked by signs containing the words of the Christmas gospel. During the ten days that the exhibit was open, singing groups from local churches and other organizations presented Christmas recitals at the barn. Commenting on the undertaking, Walter W. Hillenmeyer, of the sponsoring firm, said, "Our main thought was not one of commercialism, but to get the Christ back in Christmas."

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PEONY PRIMEVERE—Best yellow, large flower. 3 to 5-eye divisions, 45c ca., mini-num order, 10 plants; 1 to 2-eye divisions, 17½c ca., minimum order, 25 plants. Cash with order, express collect.

with order, express collect.

ANDREWS' NURSERY-PEONY FARM
Box 442

Chapel Hill, N. C.

GLADIOLUS BULBS.

We have \$\frac{8}{8}\$ varieties of Gladiolus bulbs to offer at wholesale. A post card will bring our listings.

KROH BROS. NURSERIES

Loveland, Colo.

Loveland, Colo.

Write for complete list of Lilles, Tubeoses, Cannas, Gloxinias, Begonias, Amaryis, Gladioli, Dahlias, Peonies, Bleeding

Hearts, etc.
MONARCH PLANT FARMS
Lock Box 826, Kalamazoo, Mich

BERKERY, Inc. New York 7, N. Y. 62 Reade St. Watch Your Results From American Nurseryman Classified Ads.

CAMELLIAS

CAMELLIAS

TORMEY'S CAMELLIAS IN POTS.

All over 1½ years old.

The very to be found anywhere. Packed free hests to be found anywhere. On orders for 3 or more cases. WE PAY THE EXPRESS. Order only in multiples of 50 and not less than 10 of any one variety. Cash with order. No. Co.D.'s, pleas.

Group No. 1

5 to 8 ins., \$1.75 per 10; 8 to 12 ins., \$4.50 per 10.

Alba Plena, Blood of China, Casablanca Pink, Chandleri Elegans, Colonel Firey, Dalkagura Var., Debutante, Emp. of Russia, General Patton, Herme, Kumasaka, Lady Clare, Pink Perfection.

Group No. 2

5 to 8 ins., \$1.75 per 10; 8 to 12 ins., \$5.50 per 10.

Alba Duchess of Sutherland, Glen 40, Mathotiana, Pax, Red Perfection.

Datkagura Red, Duchess of Sutherland, Glen 40, Mathotiana, Pax, Red Perfection.

High Hat Dalkagura, Magnoliaeflora, Margarete Hertrich, Martha Brice, King Lear, Dearest.

Send for lists of other sizes—we can furnish larger plants up to specimen sizes, with buds. Free copy of "Growing Camellias" for profit.

for profit.

Drawer 428, Temple City, Calif.
Container-grown Camellias exclusively.
For 15 years,
"The Best from the Far West."

Many standard and rare varieties of excellent Camellia japonica and assanqua from 2%-in. pots with top growth of 6 to 8 ins. and 8 to 12 ins. 1 and 2-yr.-old Camellia liners at very reasonable prices. Write for our wholesale price list.

COTTAGE HILL NURSERY

T. Kiyono, Mgr.

Route 4, Box 130

Mobile, Ala.

CAMELLIAS.

For the first time we are able to offer a selection of very choice varieties, out of 4-in. pots; transplants from 2½-in. pots, 1 year ago. They are sturdy plants that represent an extremely hish value, equal to 1-yr. gal-

an extremely high value, equal to 1-yr. garlons.

Here is an item to return you a good margin of profit.

50c each.

Alba Plena Montironi Alba Mrs. Abby Wilder Mrs. John Laing Panache Chandieri Elegans Cheerful Col. Firey Covina Prince Albert Prof. Sargent Debutante Purity Rainy Sun Kumasaka Rosita

Dalkagure
Debutante
Hermes
Rainy Sun
Kumasaka
Mathotiana
No packing charges on orders for \$50.00 or
more; otherwise packing at cost.
Cash with order, please, unless your credit
with us is established. New accounts, please
furnish three trade references.
Order now while selection is complete.
Write for illustrated price list.
BUY CAMELLIAS FROM THE
CAMELLIA GROWER.
DESCANSO DISTRIBUTORS, Inc.
Chino, Calif.

DESCANSO DISTRIBUTORS, Inc.
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Phone: Lycoming 8-1254

EVERGREENS

EVERGREENS	
BALLED AND BURLAPPED JUNIPI	ERS.
DUNDEE	Per 10
2½ to 3 ft., B&B	\$47.50
3 to 3½ ft., B&B	60.00
HETZ	
15 to 18 ins., B&B	27.50
18 to 24 ins., B&B	32.50
2 to 21/2 ft., B&B	40.00
MOFFETT'S	
2½ to 3 ft., B&B	47.50
3 to 31/2 ft., B&B	60.00
PFITZER	
15 to 18 ins., B&B	27.50
18 to 24 ins., B&B	32.50
2 to 2½ It., B&B	40.00
SAVIN	
18 to 24 ins., B&B	32.50
2 to 2½ ft., B&B	40,00
2½ to 3 ft., B&B	42.50
WELCH'S	
2½ to 3 ft., B&B	47.50
3 to 3½ ft., B&B	60,00
BALLED AND BURLAPPED SPRUC	'E.
BLACK HILLS 1	'er 10
2 to 21/2 ft., B&B	30.00
21/2 to 3 ft., B&B	35.00
LINING-OUT JUNIPERS.	
	er 100
9 to 12 ins., TT, 2-yr., field-grown	50.00
12 to 15 ins., TT, 2-yr., field-grown	60.00
CANAERT	00.00
grafts, 21/2-in, pots	55.00
DUNDEE	00100
grafts, 21/2-in. pots	55.00
KETELEER	00100
grafts, 21/2-in, pots	55.00
MASCALA	00100
grafts, 21/2-in, pots	55.00
MEYER	04100
grafts, 21/2-in, pots	55.00
MOFFETT'S	00.00
grafts, 21/2-in, pots	55.00
PFITZER	00.00
	40.00
12 to 15 ins. TT 2-vr. field-grown	65.00
12 to 15 ins., TT, 2-yr., field-grown 15 to 18 ins., TT, 2-yr., field-grown	80.00
VIRGINALIS (Hillbush)	00.00
grafts, 25-in. pots	55 00
VIRGINIANA GLAUCA	00.00
grafts, 21/2-in. pots	55 00
WELCH'S	00.00
grafts, 2½-in. pots	55.00
C.O.D. shipments must be accompanie	
25 per cent cash. Quantity discoun	1-10
per cent on 1000 lots.	
All our lining-out evergreens are dug	
root, puddled and packed in moss. Pac	King
and boxing at cost. Balled and burla	pped

NEBRASKA NURSERIES, Inc. 4815 "O" St., Lincoln 8, Neb.

Juniperus virginiana seedlings, Western or Platte River type. 1-yr., bed-grown, disease-free, 4 to 8 ins., bed-run, \$30.00 per 1000. You can be assured of a high percentage of livability. We know how to and do handle

them properly.

SOUTHERN NURSERY CO.

3906 Shields Blvd., Oklahoma City, Okla.

JANUARY 15, 1952		63
LINING-OUT EVERGREENS.	SEEDLINGS FOR SPRING.	LINING-OUT STOCK.
3300 Andorra Juniper, Per 100 Per 1000	Scotch Pine, Per 100 Per 1000	Per 100 Per 1000 Scotch Pine, 1-0, 1 to 3 ins\$2.50 \$12.50
6 to 8 ins., T\$12.00 \$100.00 2900 Andorra Juniper,	2-yr, 2 to 4 ins	Scotch Pine, 1-0, 1 to 3 ins\$2.50 \$12.50 Scotch Pine, 2-0, 3 to 8 ins 3.00 25.00 Scotch Pine, 1-1, 3 to 6 ins 4.00 35.00
8 to 10 ins., T 15.00 125.00 3150 Andorra Juniper.	(Riga), 2-yr., 4 to 8 ins 6.00 30.00 (Riga), 2-yr., 2 to 4 ins 4.00 20.00	Austrian Pine, 2-0, 3 to 5 ins 3.00 25.00 Mugho Pine, 2-0, 4 to 8 ins 5.00 45.00
9 to 12 ins., T 22.50 200.00		Mugho Pine, Z-1, 3 to 6 ins 0.00 45.00
9 to 12 ins., T	2-yr., 4 to 6 ins	Mugho Pine, 2-2, 4 to 8 ins10.00 90.00 Himalayan White Pine, 2-1,
	American Red Pine, 3-yr., 5 to 10 ins 9.00 45.00	3 to 8 ins 6.00 50.00 Table Mountain Pine, 1-2,
1300 Canadian Hemlock,	2-yr., 2 to 5 ins 5.00 30.00	6 to 12 ins
8 to 12 ins., T 15.00 125.00 900 Canadian Hemlock,	White Pine, 4-yr., 6 to 14 ins	Colorado Blue Spruce, 2-1, 3 to 5 ins
3700 Pine, Strobus,	Ponderosa Pine.	Colorado Blue Spruce, 2-2, 4 to 8 ins
4-yr., 6 to 10 ins., S 4.00 35.00 2800 Pine, Strobus.	2-vr., 4 to 6 ins	Norway Spruce, 2-0, 3 to 6 ins. 3.00 20.00
5-yr., 8 to 12 ins., S 7.50 60.00	Mugho Pine (Dwarf), 2-yr., 2 to 4 ins 5.00 25.00	Norway Spruce, 2-1, 3 to 6 ins. 4.00 35.00 Norway Spruce, 2-2, 4 to 8 ins. 6.00 50.00
1145 Pine, Eastern Pitch, 8 to 15 ins., S 7.00 50.00		Black Hills White Spruce, 2-0.
950 Pyramidal Arborvitae, 10 to 15 ins., TT 40.00 395.00	3-yr., 5 to 10 ins	Black Hills White Spruce 2-1.
500 American Arborvitae.	3-yr., 4 to 8 ins 8.00 40.00	2 to 5 ins
9 to 12 ins., T 20.00 195.00 B & B EVERGREENS.	Colorado Blue Spruce.	
160 Andorra Juniper, Each Per 100	3-yr., 3 to 7 ins	3 to 6 ins
15 to 18 ins\$1.25	American Arborvitae,	
290 Canadian Hemlock,	4-yr., 8 to 14 ins	Oriental Arborvitae, 2-0, 2 to 4 ins 2.00 10.00
18 to 24 ins 2.00 \$195.00 400 Canadian Hemlock.	3-yr., 4 to 8 ins	Oriental Arborvitae, 3-0,
2 to 3 ft., heavy 3.00 300.00	TRANSPLANTS.	Woodward Globe Arborvitae
	2-3, 15 to 20 ins 25.00 75.00	r.c
2 to 3 ft., heavy 3.00 75 American Holly, 18 to 24 ins., heavy 2.50	2-2, 8 to 15 ins	JOHN G. ZELENKA R. 1, Box 293 Grand Haven, Mich.
18 to 24 ins., heavy 2.50	Norway Spruce.	
Pine), 4 to 5 ft 5.00	2-2, 8 to 14 ins	CHOICE LINERS. Each Andromeda (Pieris jap.), 4 to 6 ins\$0.17
25 Rhododendron maximum,	2-1, 3 to 5 ins	Andromeda (Pieris jap.), 4 to 6 ins
FLOWERING SHRUBS.	White Pine, 2-2, 8 to 15 ins 10.00 50.00	Azalea macrantha, 4 to 6 ins
400 Forsythia fortunei, 4 to 5 ft., heavy 1.00 95.00	2-1, 4 to 8 ins 8.00 40.00 American Arborvitae,	Daphne mezereum, 4 to 6 ins
118 Weigela rosea, 3 to 4 ft., heavy	3-3, 15 to 20 ins	Daphne mezereum, 6 to 8 ins. 12 Daphne mezereum, 8 to 10 ins. 17 Daphne mezereum, 10 to 12 ins. 22
250 Spiraea vanhouttei.	2-2, 4 to 8 ins 10.00 50.00 Cash; or 25 per cent deposit with order,	Daphne mezereum, 12 to 14 ins
2 to 3 ft., heavy	balance C.O.D. 5 per cent discount on quan-	Daphne mezereum, 12 to 14 ins. 27 Daphne odora, branched, 8 to 10 ins. 45 Heather, Springwood White, 2 to 4 ins. X .15 Heather, VeVilli, 2 to 4 ins. X 16
50 Chinese Elms, 4 to 5 ft., heavy 1.00	tites of 25,000. SAM DIBLE NURSERY, Shelocta, Pa.	Heather, VeVilli, 2 to 4 ins., X
120 American Ash, 5 to 6 ft 1.00 95.00 75 Columbia Poplar,		Lithospurmum (Heavenly Blue), 3-in. pot
9 to 10 ft., heavy 2.00	FIELD-GROWN EVERGREEN LINERS. Per 100	3-in, pot
35 Golden Weeping Willow, 6 to 8 ft., heavy 1.25	Juniperus communis (English).	
100 Northern Hackberry,	1-yr., 8 to 12 ins\$10.00 1-yr., 12 to 15 ins	Clematis montana rubens, 2-in. pot35 SPRING DELIVERY.
5 to 7 ft., well br 1.00 200 Scarlet Maple,	1-yr., 8 to 12 ins 15.00	Viburnum burkwoodi, 4 to 6 ins
4 to 5 ft., whips	2-yr., 12 to 15 ins	Viburnum burkwoodi, 8 to 10 ins21
4 to 6 ft., whips	1-yr., 6 to 8 ins	Daphne cneorum
300 Dogwood, White-flowering,	1-yr., 8 to 12 ins	
3 to 4 H., 150/15.	1-yr., 6 to 8 ins	Juniperus sargenti, 4 to 6 ins
trimmed back 1.00 100.00 255 Dogwood, White-flowering,	Juniperus communis hibernica.	Lithospurmum (Heavenly Blue)
4 to 5 ft., B&B, trimmed back 2.00 200.00 All stock of good quality up to grade.	1-yr., 6 to 8 ins	Cash with order, please. FOUR STAR NURSERY
All stock of good quality, up to grade. Cash with order, please, Shipment to be	2-yr., 12 to 15 ins	Rt. 3, Box 3529, Edmonds, Wash.
Cash with order, please. Shipment to be made when wanted this spring. WHERRY'S NURSERIES, St. Marys, W. Va.	Juniperus communis kiyonoi.	EVERGREEN LINERS and CUTTINGS.
	1-yr., 8 to 12 ins	POT-GROWN EVERGREEN LINERS. Each—Per 100 Per 1000
1952 LINING-OUT STOCK. T—once transplanted; TT—twice transplant-	Juniperus excelsa stricta. 1-yr., 6 to 8 ins	Arborvitae, Pyramid, 1-yr., 6 to 7 ins
ed; FR-field rows; Sdigseedlings. Per 100 Per 1000	2-yr., 8 to 12 ins	Arborvitae, Globe Woodward, 1-yr., 3 to 4 ins
2000 Acer negundo, 2-yr.,	1-yr., 6 to 8 ins 10.00	Taxus media hicksi,
sdlgs	Juniperus horizontalis plumosa. 1-yr., 6 to 8 ins	2-yr., 6 to 8 ins
2000 Cornus kousa, 1-yr., sdlgs, 5.50 45.00	I-yr., 6 to 8 ins	1-yr., 3 to 4 ins
2000 Cornus kousa, 3-vr., T.	1-yr., 6 to 8 ins	From flats, rooted outside in lath house.
FR	Juniperus sabina. 1-yr., 6 to 8 ins	Arborvitae, American. Each—Per 100 Per 1000
sdlgs 4.50 35.00 5000 Cydonia japonica, 2-yr.,	1-yr., 6 to 8 ins	Dark Green
T, FR 8.50 75.00 8000 Leucothoe catesbaei,	1-yr., 6 to 8 ins	
3-yr., TT. FR 35.00 300.00	Juniperus sabina von Ehron.	Taxus media hicksi
8000 Leucothoe catebaei, 3-yr., TT, FR 35.00 300.00	1-yr., 6 to 8 ins	Taxus cuspidata
	Juniperus virginiana kosteriana.	Taxus intermedia
900 Pieris japonica, 2-yr., TT 30.00 250.00 1500 Rosa rugosa, 6 to 8 lns. 8.50 75.00 1500 Rosa rugosa, 9 to 12 ins. 12.50 110.00	1-yr., 6 to 8 ins	2 per cent discount and free packing for
1500 Rosa rugosa, 6 to 8 lns. 8.50 75.00 1500 Rosa rugosa, 9 to 12 ins. 12.50 110.00	Retinospora plumosa, 1-yr., 6 to 8 ins	cash with order. 250 plants at 1000 rate.
	1-yr., 8 to 12 ins	MIAMI NURSERY CO.
2-yr., T 30.00 250.00 2500 Taxus media helleri.	1-yr., 6 to 8 ins	Tipp City, Ohio
No. 92, 4-yr., TT, FR. 50.00 450.00 3000 Taxus media hicksi,	1-yr., 8 to 12 ins	2-YR. EVERGREEN SEEDLINGS. Packing free. Parcel Post (prepaid).
2-yr., T 30.00 250.00 3500 Taxus media hicksi,	Cash with order, no charge for packing. BYERS NURSERY CO.	Scotch Pine (Certified Per 100 Per 1000
3500 Taxus media hicksi, 4-yr., TT., FR 50.00 450.00 1500 Taxus media hicksi,	Chase, Ala.	Riga), 6 to 10 ins\$4.85 \$34.75
1500 Taxus media hicksi, 5-yr., TT, FR 80.00 700.00	EVERGREEN TRANSPLANTS. Per 100	Scotch Pine (Sylvestris),
2500 Taxus media microphylla	Juniperus pfitzeriana.	4 to 6 ins
4-yr., TT, FR 50.00 450.00 2500 Thuia occidentalis pyra-	6 to 9 ins., XX, field\$30.00 Juniperus Von Ehron,	6 to 10 ins
midalis, 2-yr., FR grafts 70.00 600.00	9 to 12 ins., XX, field	4 to 6 ins
3000 Wistaria sinensis,	6 to 10 ing., XX, field 35.00	picked seeds from Blue trees).
1-yr. sdlgs 4.50 35.00 Samples mailed on request.	6 to 10 ins., XX, field	2 to 5 ins
BOULEVARD NURSERIES, Newport, R. I.	LINERS.	strain), 6 to 12 ins 5.75 37.75 Douglas Blue Fir.
NANDINA.	Book your liners now for spring. Field-	5 to 10 ins
Nandina domestica. Strong seedlings, \$30.00 per 1000. Free packing. Prepaid in	grown liners, liners in pots and rooted cut- tings. Write for your list now. Over one	Canadian Hemlock, 3 to 6 lns
the United States. SKYLINE GARDENS	million liners. POPE NURSERY	Terms: Remittance with order. NEUNER'S EVERGREEN NURSERY
Box 3316 Birmingham 5, Ala.	Ph. VA. 3441, 4020 Race, Ft. Worth 11, Tex.	R. D. 3, Dept. A. N., Emsworth 2, Pa.

EVERGREENS—Continued

EVERGREEN ROOTED		TINGS Each	3.
Rooted.	10	100	1000
Arborvitae, Globe	\$0.10	\$0.09	\$0.08
Arborvitae, Pyramidal	.10	.09	.08
Juniper, Irish	.12	.11	.10
Juniper, Pfitzer	.12		.10
Taxus capitata, 6 to 10 ins	.20		
Taxus cuspidata, 6 to 10 ins.			
Taxus hicksi, 6 to 10 ins			.08
Taxus intermedia, 6 to 10 ins.	.10		.08
In Plant Bands.			
Arborvitae, Globe	.20	.18	.16
Arborvitae, Pyramidal	.20	.18	.16
Juniper, Pfitzer		.18	.16
Taxus capitata, 6 to 10 ins		.28	.24
Taxus cuspidata, 6 to 10 ins.		.15	.13
Taxus hicksi, 6 to 10 ins	.18	.15	.13
Taxus intermedia, 6 to 10 ins.	.18	.15	.13
1-year, Bed.			
Arborvitae, Globe	.20	.18	.16
Arborvitae, Pyramidal	.20	.18	.16
Taxus cuspidata, 6 to 10 ins.	.18	.15	.13
Taxus hicksi, 6 to 10 ins		.15	.13
The Taxus capitata (LEA			used
only. 300 at 1000 rate; no charge	for	nackir	ng.

DRAKE'S NURSERIES

LINING OUT-STOCK.	
Rooted Cuttings. Per 100 P	er 1000
Ilex crenata convexa,	
4 to 6 ins\$ 8.50	\$70.00
6 to 8 ins 10.00	
Taxus cuspidata, 6 to 8 ins 9.00	
Taxus media hicksi,	
6 to 8 ins 9.00	80.00
Taxus mooni columnaris,	
6 to 8 ins 9.00	80,06
1-yr., 21/4-in. Rose Pots.	
Juniperus pfitzeriana 22.00	200.00
Taxus cuspidata 17.00	
Taxus media hicksi 17.00	
Taxus mooni columnaris 17.00	
2-yr, Beds.	
Taxus cuspidata 20.00	180.00
Taxus media, upright 18.00	
3-yr, Beds.	
Taxus cuspidata 27.00	250.00
Packing free and 2 per cent discou	
cash with order. 25 per cent deposit	
orders.	
LEHIGH VALLEY NURSERIES, I	ne.
Nazareth Pike, Bethlehem, Pa.	

WHITE PINE (Pinus strobus) liners.

Two-year, root-pruned seedlings, grown at low bed density resulting in exceptionally stocky, well rooted plants. Plants have good blue-green color.

2 to 4 ins., \$20,00 per 1000.

2 to 4 ins., \$20,00 per 1000.

RED CEDAR (Juniperus Virginiana).

These seedlings root-pruena and stocky, are grown from Widna, Minn, seeds which we have found by the plants less subject to ceder blight. We have never seen a nicer bed of cedar seedlings.

4 to 6 ins. \$23,00 per 1000.

500 or more plants take 1000 rate.

No packing charges.

FORREST KEELING NURSERY

Elsberry, Mo.

Lisberry, Mo.

JUNIPER GRAFTS.

Canaerti, Glauca, Burki, Keteleeri, Chinese
Blue Columnar, Hetzl and Pfitzeriana on
Virginiana understock. Price \$40.00 per 100.
regardless of number ordered. Terms: All
cash with order earns free packing, or onefourth cash and balance before shipping date
plus packing charges at cost.

We invite comparison with grafts of any
other company. Remember, when better
grafts are made, Crume will make them. We
get orders each year for twice as many
grafts as we can make. Be smart and order
early. A hint to the wise is sufficient.

T. C. CRUME NURSERY

& LANDSCAPING CO.

Highway 42

Magnolia grandiffora seedlings. Field bed

Highway 42

Magnolia grandiflora seedlings. Field bed grown, 1-yr., average about 5 ins., \$65.00 per 1000, 300 at 1000 rate. 2-yr. seedlings. 12 to 18 ins., \$55; 18 to 24 ins., 40c; 2 to 3 ft., 50c each; row-run, 12 ins. and up, 30c each in lots of 50 or more. No orders for assorted sizes in 2-yr. plants dug before spring, 1952. Orders for 1-yr. and 2-yr. row-run seedlings to be dug now and until about April 10, 1952, to suit customer's preference. Packed free for cash with order. Approximately 500 well calipered and mostly branched Magnolias in 4-gallon cans, 32.00 each. Only for trucks to pick up at nursery, will not pack for shipment.

HARWELL NURSERY

ment.

HARWELL NURSERY
Highway 64-71 East Van Buren, Ark.

EVERGREENS. Heavy, Pot-grown Liners for Spring Ship-Per 100

Taxus cuspidata, 21/4-in. pot	.\$22.50
Juniperus hibernica, 24-in. pot	. 17.50
Juniperus horizontalis douglasi,	
21/4-in. pot	. 20.00
Euoynmus erectus, 21/4-in. pot	. 12.50
Euonymus radicans (true), 24-in. po	t 17.50
No charge for packing when cash	accom-

panies order.
THE HOLLANDIA GARDENS, Inc.
South Vienna, Ohio

Chinese Arborvitae sdigs., grafter grade, bare root, from seedbeds., \$45.00 Chinese Arborvitae sdigs., hedge grade, bare root, from seedbeds, 18 to 14 ins. 95.00 Red Crape Myrtle, 2-yr. cuttings, grown in beds, 24 to 39 ins., 25c each.

LUKE NURSERY Pauls Valley, Okla.

EVERGREEN SEEDLINGS.
Per 100 Per 1000 Scotch Pine, 1-9, 1 to 3 ins. Per 100 Per 1000
Austrian Pine, 1-0, 1 to 3 ins. \$12.00
Austrian Pine, 1-0, 1 to 3 ins. \$4.00
Scotch Pine, 2-0, 4 to 8 ins. \$4.00
Colorado and Englemann Biue
Spruce, 2-0, bed run. \$3.00
Austrian Pine, 1-2, 5 to 8 ins. 10.00
ARTHUR CASH NURSERY, Angola, N. Y. 20.00

JUNIPER GRAFTS.
Grafted on virginiana understock.
Juniperus canaerti, burki, keteleeri and

glauca.
All grafts well callused and ready for field planting.

\$40.00 per 100.

All orders sent with cash earn free pack-ing; or ½ cash, balance before shipping. FLORENCE NURSERY, Florence, Ky.

EVERGREEN PLANT MATERIAL.
ADVANCED LINERS in Azalea, Cornus,
ctoneaster, Ilex, Juniperus, Kalmia, Leuothoe, Pieris, Rhododendron, Taxus, Thuja,
'suga, Viburnum.
Finished Trees in Colorado Blue Spruce.
All Certified for Western Shipment.
Write for Wholesale Price List.
H. W. Weber EVERGREEN NURSERY
16 Summer St.
Weston 93, Mass.

H. W. WEBER 16 Summer St.

EUONYMUS EUONYMUS.
Luonymus alatus compactus.
1-yr., transplanted cuttings, 4 to 7 ins.
425.00 per 100.
2-yr., transplanted cuttings, 10 to 12 ins.,
branched, \$25.00 per 100.
This is all strong, heavy-rooted stock.
C. HOOGENDOORN
Turner Road
Newport, R. I.

UNROOTED CUTTINGS OF PFITZER JUNIPER, 6 to 10 ins. long, not trimmed. Moss-packed; express only, \$10.00 per 1000. Cash with order. KRONE'S FLOWER SHOP 4221 Grand Ave.

JAPANESE BLACK PINE.
We are headquarters for heavy liners of a
beautiful compact strain of Pinus thunbergi.
JOSEPH A. HREN NURSERIES
East Hampton, L. I., N. Y.

DOUGLAS FIRS. 8 to 15-Inch Douglas Firs. \$7.50 per 100, \$60.00 per 1000. COASTAL GARDENS Sheridan, Ore.

FRUIT and NUT TREES

	SURPLUS FRUIT TREES.	
	Packed in lots of 10	
	APPLES. to 6 ft., 11/16-in. cal	Each
5.	to 6 ft 11/16-in cal	\$0.40
4	to 5 ft., 9/16-in. cal	. 60. 40
	to 4 ft., 7/16-in. cal	* .00
12.	Dealer Western Waller Character St.	20
co.	Early Harvest, Yellow Transparent,	Horse,
S	ummer Orange, Winesap, Red Del	icious,
В	onum, Stayman, Blacktwig, Buckin	gham,
G	rimes Golden,	
	PEACHES.	Each
4	PEACHES. to 5 ft., 9/16-in. cal	.\$0.40
3	to 4 ft., 7/16-in. cal	30
2	to 3 ft., 5/16-in. cal	20
	Red Bird, Golden Jubilee, Belle of Ge	orgia
J	. H. Hale, Elberta, Slappy, Early	Rose
	to 5 ft., 9/16-in. cal	Ench
A	to 5 ft 9/16-in cal	\$0.50
*		
	GRAPES.	***
~	GRAPES.	Each
201		
	PEARS. to 5 ft., 9/16-in. cal	Each
4	to 5 ft., 9/16-in. cal	.\$0.70
3	to 4 ft., 7/16-in. cal	60
	Kieffer, Early Harvest, Le Conte.	
	Write for prices on evergreens, etc.	
	NORTH STATE NURSERY CO.	
	Julian, N. C.	
_		
	TOP-OUALITY TREES AT OUR LO	1337

TOP-QUALITY TREES AT OUR LOW PRICES MEAN BIG SAVINGS. We have several hundred Apple in surplus one-year whips. Red Delicious, Stayman Winesap, Grimes Golden, Winesap and Yel-low Delicious; 12 to 18 ins., 7c ea.; 18 to 24

low Delicious; 12 to 18 ins., 7c ea.; 18 to 24 ins., 10c ea.

A few thousand June Bud Peach, ideal for iners or retail trade, Early Elberta, Shipper's Red, Halehaven, J. H. Hale and Southhaven; 12 to 18 ins., 8c ea.; 18 to 24 ins., 12c ea.

Cherries, limited quantities, but a good bargain at these new low prices, 2000 Montmorency, 400 Black Tartarian and 350 Early Richmond; 6 to 12 ins., 10c ea.; 12 to 18 ins., 15c ea.; 18 to 24 ins., 20c ea.

Pears, a few hundred Kleffer; 12 to 18 ins., 12c ea.; 18 to 24 ins., 17c ea.

Order in multiples of 10 or 25. 2 per cent discount on cash with order. No charge for packing.

packing.

GLOBE NURSERIES x 249, McMinnville, Tenn.

STUART PECANS — Strong grower and heavy producer of large nuts. Heavy plants with short taproots and a heavy feeder system. Will grow off rapidly, Booking now for immediate delivery. 2 to 2 ft. 85c ea.; 2 to 4 ft. 90c ea.; 4 to 5 ft., \$1.10 ea.; 5 to 6 ft., \$1.25 ea.; 6 to 7 ft., \$1.45 ea. Also seedling pecans, ideal for shade, at lower prices. FLORIDA NURSERY & LANDSCAPE CO. N. 14th St.

Standard Apple, 2-yr. buds, 11 to 16-in.
cal., 4 to 5 ft., 45c each.
Jonathan (dark red), Rome Beauty
(double, red), Stayman Winesap (dark red),
Delicious (red), McIntosh Red, Yellow Transparent. FRENCH NURSERY CO., Clyde, Ohio

Early and heavy-bearing Papershell Pecan trees; blightproof Pineapple Pears and the new Orlent Pear; Apple, Peach and Plum trees; Grapevines. New catalog free. BASS PECAN CO. Lumberton, Miss. Largest Growers of Pecan Trees in the World

CELESTE FIGS.
18 to 24 ins., 20c ea.; 2 to 3 ft., 30c ea.
McKEE'S NURSERY
P. O. Box 749, Covington, La.

GROUND COVERS

PACHYSANDRA TERMINALIS. Strong, 1-yr., field-grown, \$65.00 per 1000. HILLCREST GREENHOUSES, Franklin, Pa.

HARDWOOD CUTTINGS

HARDWOOD CUTTINGS.
From Hardy Northern-grown Shrubs and Trees. Deliver, now. From our own plantings and blocks checked yearly for accuracy. Cut 7 inches.

Aronia melanocarpa

Attonia metanocarpa	4.00
Cornus paniculata	4.00
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lutea (yellow bark)	6.00
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Forsythia intermedia	3.00
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Elder, Golden	6.00
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Willow, Niobe	3.00
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Golden	3.00
Pussy	3.00
	25.00
	25.00
	5.00
	25.00
Packed free, Cash with order, please.	De-
livery in good order guaranteed.	W. C.
THE SCOTCH GROVE NURSERY	
Scotch Grove, Iowa	
Scotch Grove, rowa	

HARDY PLANTS

Write for our 1952 WHOLESALE LIST featuring in color our latest Mum introductions LEGIONNAIRE and AMVET, and last year's "GENERALS", Marshall, MacArthur and Bradley, Also listing, other popular and choice Mums and top Perennials, CORLISS BROS., Inc., 1 Reynard St., Gloucester, Mass.

BLEEDING HEARTS. Per 100
Dicentra spectabilis, 3 to 5-eye. \$25,00
Dicentra spectabilis, 5 to 8-eye and up. . 29,00
Dicentra eximia, 3 to 5-eye. 15,00
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J. HENDRIKS, Grower, Portage, Mich.

America's Best Source for Hardy Plants is THE WAYSIDE GARDENS Mentor, Ohio Write for Trade List,

SEEDS OF HARDY PERENNIALS.
700 varieties and species.
Offered in our special wholesale price list
of perennial seeds, plants. Sent on request.
REX. D. PEARCE, Dept. N. Moorestown, N. J.

Pansies, perennials and rock plants in wide variety. Send for catalog. PITZONKA'S PANSY FARM Bristol, Pa.

ROSEBUSHES

Ami Quinard, Etolie De Hollande, Matador, Red Radiance, Night.
YELLOWS.
Golden Dawn, Joanna Hill, Sister Therese.
McGredy's Scarlet, Dame Edith Helen, Editor McFarland, Pink Radiance, Countess Vandal.

K. A. Viktoria, Killarney,
POLYANTHAS.
D. T. Poulsen, Else Poulsen, Gloria Mundi,
Golden Salmon, Mary Wallance (pink

Golden Saimun, mary racing Climber).

No. 1 grade, 45c; No. 2 grade, 30c each.
GUS MASCHMANN ROSE NURSERY
U. S. Route 36

Delaware, Ohlo

U. S. ROUE 36

JAPONICA MULTIFLORA ROSES.
One-year, field-grown, heavy, branched stock. Large and beautiful, the new and most beautiful landscaping rose known. Also for hedges and estates, in both white and pink colors. Very limited supply.

500 to 5000, 12c each, packed and ready for shipment F.O.B. here. 5000 lots and upward, 10c each, packed and ready for shipment F.O.B. here.
Do not delay ordering this scarce and wanted rose, as we have only a limited supply and no more. Check with order, please. All shipments guaranteed.

We are wholesalers exclusively.

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Roses! ROSES! ROSES!

Painesville, Ohio, Grown.

The finest we have ever offered.

CLIMBERS.

Per 10

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Blaze, 2-yr., No. 1.

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ROSEPUSHES.

187 leading varieties, Standard and Patented, 2-year-old field-grown, state inspected and certified. Permits to all 48 states and foreign countries. America's best wrapped and waxed roses, also bare root. Rock-bottom prices. Exclusively wholesale. Write us for illustrated packs in natural colors, and wholesale prices.

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TYLER ROSES.
Extra-fine, top-quality.
Prices reasonable. Correctly graded. List
upon request. Also several thousand 2-yr.
Multiflora Hedge Roses.
WRIGHTWOOD FLORAL CO., Inc.
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ROSEBUSHES.

2-yr. plants: grown right, graded right, packed right. Very complete assortment of varieties. Write for prices and book your requirements now.

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D. L. Thompson, Mgr.

ROSES—Good assortment of 2-yr. bushes budded on fibrous-rooted, creeper multifora. No. 1 grade, 46c ea.; No. 1½ grade, 22c ea.; No. 2 grade, 24c ea., on orders of 250 up. P. O. TATE NURSERY, Rt. 3, Tyler, Tex.

ROSES,
Better Roses for less money.
No. 1 grade, 30c each and up.
Write for Price List.
M. OLIVER FLOWER FARMS
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FOR BETTER THAN EVER
ROSEBUSHES.
Get Martin's Deal.
Lists now ready.
MARTIN'S ROSE NURSERY
P. O. Box 155
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A CUSTOMER WROTE THIS AD.

"Shipments of roses received from you are
the best we have ever seen on the market."
ROSE LAWN NURSERIES
Member A.A.N. Winnsboro, Texas

er 100 \$60.00 55.00 55.00 55.00 55.00 Perry, Ohio

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ROSES.
Surplus Hybrid Tea Roses; also patented ybrid Tea Roses, and climbers.
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True, night structured and the structure of the structure

NANDINA SEEDS—New crop, cleaned, ried, gathered before hard freezes, \$1.50 er lb. Cash with order, express collect. Minimum order 2 lbs.
ANDREWS NURSERY
P. O. Box 442, Chapel Hill, N. C.

Italy's most reliable source of supply of high-quality TREE and SHRUB SEEDS for Nurserymen and Foresters. A quarter century of experience. List free.

ARTURO ANSALONI
P. O. Box 210

Bologna, Italy

NURSERY STOCK.

CHERRIES, Montmorency, 9/16-in., 4 to 5 ft., 60c; 11/16-in., 5 to 6 ft., 70c ea.

APPLES. 1-yr., 2 to 3 ft., 15c; 3 to 4 ft., 20c; 4 to 5 ft., 25c; 2-yr., branched. 5/16-in., 20c; 7/16-in., 30c; 9/16-in., 40c; 11/16-in., 50c ea.

Ada Red

Anoka

Griman Ada Red
Anoka
Black Ben Davis
Blood Red Delicious
Blood Red Jonathan
Blood Red Stayman
Turley
Yellow Delicious
Yellow Transparent
Yellow Delicious
Yellow Transparent
Stelle of Georgia
Indian Cling
Early Elberta
Halehaven
Heath Free
Improved Elberta
PEARS. 3-yr. grafts, well branched, good
caliper, 5 to 6 ft., 50c; 6 to 8 ft., 60e; 8 to 10
ft., 70c ea.
Keiffer

Totals 5 to 6 ft., 50c: 6 to 8 ft., 60c; 8 to 10 ft., 61fs.

CHESTNUTS, CHINESE. Blight-resistant, 2-yr., 3 to 4 ft., 75c; 4 to 5 ft., \$1.00 ea., WALUUT, BLACK. Seedlings, 2 to 3 ft., 30c; 3 to 4 ft., 45c; 4 to 6 ft., 55c; 6 to 8 ft., 80c; 8 to 10 ft., 95c ea.

PECAN, STUART. Seedlings 2 to 3 ft., 35c; 3 to 4 ft., 50c; 4 to 6 ft., 65c ea.

GRAPES. 2-yr., No. 1, Concord. \$8.50 per 100; \$15.00 per 1000. Fredonia, \$12.00 per 100; \$100.00 per 1000. Fredonia, \$12.00 per 100; \$100.00 per 1000. Fredonia, \$12.00 per 100; \$100.00 per 1000. Fredonia, \$12.50 per 100; \$100.00 per 1000. Fredonia, \$100.00 per 1000. Fredonia, \$12.50 per 100; \$10

c ea. POPLAR, Simon. 4 to 6 ft., 30c ea. BENTON COUNTY NURSERY CO., Inc. Rogers, Ark.

Rogers, Ark.

FLOWERING CRABS.

1000 Hopa, 1-yr., mostly 4 to 6 ft.

1000 Eley, 1-yr., mostly 4 to 5 ft.

200 Atrosanguinea, 1-yr., 3 to 4 ft.

Also a limited number of Adstringens.

Aldenham, Arnold, Dolgo, Micromalus, Red

Silver, Sargent, Spectabilis, Scheidecker,

Zumi Calocarpa.

Newer kinds: Almey, Charlotte, Dorothea,

Glorlosa, Hillieri, Katherine, Lemoine,

Nieuwlandiana, Prince Georges, Redfield,

Most kinds at the 10 rate: 3 to 4 ft., 80c;

4 to 5 ft., \$1.00; 6 ft. up, \$1.25 each, Newer

kinds: 2 to 3 ft., \$1.00; 3 to 4 ft., \$1.35; 4

to 6 ft., \$1.56 each.

Order now for immediate or spring delivery.

t., \$1.65 each.

now for immediate or spring delivery.

SIMPSON ORCHARD CO.

Vincennes, Ind. Box 88

Prunus Maritima.
Strong 1-yr. seedlings, 6 to 12 ins.
110.00 per 100.
190.00 per 1000.
C. HOOGENDOORN
Newport, R. I.

WHOLESALE LIST.
Immediate and Spring, 1952.
Field-grown Evergreen Liners.
All liners are well rooted and are first-class
Per 100 Per 1000

plants at 1000 rate. No packing charge when cash is sent with

order,
All orders will be appreciated and given
All orders will be appreciated and given
prompt attention.
NAUGHER NURSERY
Chase, Ala.

LINING-OUT STOCK.

Field-grown.		
P	er 100	Per 1000
Heckrotti Honeysuckle,		
12 to 18 ins	12.00	****
Spiraea froebeli,		
8 to 10 ins	10.00	****
6 to 8 ins		\$75.00
Euonymus coloratus,		
6 to 8 ins	10.00	80.00
4 to 6 ins	8.00	75.00
From 11/2-in. pots		
Snowball, Common	10.00	90.00
Spiraea Anthony Waterer	9.00	86.00
Spiraea froebeli	7.00	
Euonymus carrierel	10.00	85.00
Euonymus patens (true)	12.00	
Rooted Cuttings.		
Euonymus radicans	5.00	45.00
Euonymus coloratus	5.00	45.00
Spiraea froebell	5.50	50.00
Lombardy Poplar,		
12 to 18 ins	3.50	30.00
Hardwood Cutting	8.	
Lombardy Poplar	.60	4.50
Cash, please, No packing		es.
PRITCHARD NURSE		
Rt. 4, Ottawa, Kar	1.	

No packing charges.
FORREST KEELING NURSERY
Elsberry, Mo.

LILAC.

Lilac Firmament (new). Immense panicles of large formal flowers of a beautiful shade of sky-blue, truly a gem among blue varieties. This is one of Lemoine's best single light blues and is exceptionally fine in every way. Last spring we had plants producing 11-in. Strong 1-vr. graft. Strong 1-yr., grafts, 6 to 12 ins., \$75.00 per 100.

Turner Road Newport, R. 1.

EUROPEAN WHITE BIRCH.

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3	to	4	ft				į.										.\$12.50 \$100	0.00
2	to	3	ft															5.00
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A few large 3 and 4-year-old Apple.
Jonathan, York, Winesap, Stayman, Red
and Yellow Delicious, Rome Beauty, Grimes
Golden, 1 to 1½-in., 265.00; 1½-in. and up.
\$100.00 per 100.

\$100.00 per 100. 500 American Ash, 1½ to 1½-in., \$1.50; 1½ to 2-in., \$1.85; 2 to 2½-in., \$3.00 each, Pin Oak, Soft and Hard Maple from 1 to 3-in.

cal.
EGYPTIAN NURSERY & LANDSCAPE CO.
Phone: 64 Farina, Ill.

SHRUBS and TREES-Continued FORSYTHIA. Forsythia Spring Glory (new). Strong 1-yr., transplants, 15 to 24 ins., 2 branches and up \$16.00 per 1000. The new pale yellow Forsythia which is rapidly gaining in popularity. C. HOOGENDOORN Turner Road Turner Road Grier Road Rewport, R. 1. Really nice, collected Red Cedars. 5 to 16 ins., \$20.00 per 1000. 10 to 15 ins., \$25.00 per 1000. 15 to 24 ins., \$7.50 per 100. 24 to 36 ins., \$12.50 per 100. 3 to 4 ft., \$17.50 per 100. Write for prices on large-size liners as sllows: Sycamore, Redbud, Dogwood, Ameran Elm, etc. Elm, etc. ROLLERS NURSERY, Rogers, Ark. LINING-OUT STOCK, 1952. Per 100 Per 1000 on request. GULF STREAM NURSERY, Inc. Wachapreague, Va. BEAUTY BUSH. Kolkwitzia amabilis (Beauty Bush) Strong 2-yr., tr., 12 to 18 ins., branched 120.00 per 100. \$175.00 per 1000. These are strong liners and could be used for mail-order business. C. HOOGENDOORN Turner Road Newport, R. I. FLOWERING CRABS. VIBURNUM. Viburnum carlesi. Strong 1-yr., grafts, 10 to 18 ins. \$65.00 per 100. \$600.00 per 1000. \$600.00 per 1000. Newbort, R. I. Newport, R. I. CHINESE ELM SHADE TREES. 4 to 6 ft., \$20.00 per 100; 6 to 8 ft., \$45.00 per 100; 8 to 10 ft., \$80.00 per 100. 25 at the 100 rate. GRUNDY'S GARDENS Anton, Tex. ORIENTAL MAGNOLIAS.

VEGET.	ABLE	ROOTS

Per 100 Per Asparagus, Washington, 1-yr\$1.80 \$	
Asparagus, Washington, 1-vr., \$1.80 \$	1000
	12.50
Asparagus, Washington, 2-yr 2.20	18.06
Horse-radish, whole crowns 5,50	50.00
Horse-radish, cuttings, 6 ins, 3.00	25.00
Rhubarb, Victoria, 1/2 to 1/8-in 4.00	32.50
Cash please. No packing charges.	
PRITCHARD NURSERIES	
Rt. 4, Ottawa, Kan.	

VINES

CLEMATIS.
Clematis montana rubens (Anemone Cle- matis).
Strong 2-yr. field-grown plants, staked, 3 to 4 ft.
\$100.00 per 100. A strong vigorous, extremely hardy va-
riety. Will thrive under most adverse condi- tions, Clusters of anemone-like flowers which
open up in May. One of the most dependable
C. HOOGENDOORN
Turner Road Newport, R. I.

CHRISTMAS TREES

CHRISTMAS TR	EE SEE	DLINGS	
	Per	Per	Per
	1000	10,000	50,000
Prices per 1000			
Scotch Pine, 1-0,			
2 to 4 ins	\$10.00	\$9.00	\$8.00
Austrian Pine, 1-0,			
2 to 4 ins	10.00	9.00	8.00
These seedlings hav			ly fine
root system.			
VAN'S	PINES		
R. R. 1	Wes	at Olive.	Mich.

SUPPLIES

MINN	ES	O	П	1	L	7	v	7)	H	1	7	r	E		€	1	6	E)	A	R	1	[7]	L	A.	TS		
12x16x23																					\$1	8	. 5	0	p	er	1	00
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Other																												
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DAHLIA OR TREE LABELS.
Priced per 1000 3½x5/6 ins., notched, not wired .82.50 3½x5/6 ins., wired (copper)... 3.30 POT LABELS. 4x½ ins. (cartons 1000 coals.)

2½x5/6 ins., wired (copper)... 3.30 4.10

4x% ins. (cartons 1000 each)... 2.75 5.30

5x% ins. (cartons 1000 each)... 3.00 3.60

6x% ins. (cartons 1000 each)... 3.00 3.60

6x% ins. (cartons 1000 each)... 3.00 3.60

6x% ins. (cartons 500 each)... 2.40 3.00

10x% ins. (cartons 500 each)... 3.00

3.60

6x % ins. (cartons 500 each)... 3.00

3.60

6x % ins. (cartons 500 each)... 3.00

10x % ins. (cartons 250 each)... 2.00

10x % ins. (cartons 250 each)... 2.00

10x % ins. (cartons 250 each)... 3.00

12x1¼ ins. (cartons 250 each)... 3.00

1xy with ins. (cartons 350 each)... 3.00

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Toungstown 2, Ohio

Made from a good grade of Southern Yellow Pine, since Cypress is not available.

Standard specifications, Inside measurements.

Standard specifications.

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boxes and spray boards.

HIGHTOWER BOX & TANK CO.

Birmingham, Ala.

WOOD LABELS.
SHIPPING CHARGES PREPAID.
Delivered price per of

Plain Pa	inted
3½-in, copper wired	
(1000 to ctn.)\$3.20	\$3.80
4-in. pot label (1000 to ctn.) 2,65	3.10
5-in. pot label (1000 to ctn.) 2.90	3.40
6-in. pot label (1000 to ctn.) 3.30	3.80
8-in, pot label (500 to ctn.) 2.45	3.05
10-in. pot label (500 to ctn.) 3.00	3.50
12-in. pot label (500 to ctn.) 3.50	4.15
8-in. garden label (250 to ctn.)., 2.00	2.25
10-in. garden label (250 to ctn.) 2,20	2.50
12-in. garden label (250 to ctn.) 3.50	4.00
These are delivered prices. Send of	heck
with order.	

ANTHONY & CO. Box 473, Escanaba, Mich

Box 473, Escanaba, Mich.

Try genuine "High Nitrogen"
MICHIGAN PEAT.
Tops in quality. 100% processed peat, pH4.5. Use M.P. in potting, bench solls, mulching. For Azaleas, Ericas, Triple profits.
USE IT.—SELL IT. Truckloads, cars. bagged (6 sizes) and bulk. Prices F.O.B. Peat Bogs, Capac, Mich.
Check with order, please. Minimum order, 104-bu, (100-lb.) bags.....\$1.95 each Compare bushel content. Lowest prices.
Order today from MICHIGAN PEAT, Inc.
267 Fifth Ave. New York, N. Y.

REDWOOD FLATS, K. D. Finest stock obtainable. Guaranteed all r heart. Size 20x15x3 ins. inside measur

clear heart. Size 20x15x3 ins. Insuce mea \$42.00 per 100. 1x1-in. Cypress stakes, pointed. 5n pcs. to bundle, 4 ft., \$3.50 per bdi. 50 pcs. to bundle, 5 ft., \$4.50 per bdi. 50 pcs. to bundle, 6 ft., \$5.50 per bdi. Ship same day. Cash with order, please. YOHO & HOOKER, Youngstown 2, Ohio

WISCONSIN'S QUALITY SPHAGNUM
MOSS.
Clean, fong-fibered, solidly packed in burapped or wired bales of standard size,
direct from drying beds. None better,
Trucked when feasible,
WARRENS MOSS CO., Box 7, Warrens, Wis.

STAKES, GALVANIZED HARD STEEL. STAKE FASTENERS and COTTON TWINE. Prices and samples sent upon request. SCHUPP SUPPLY CO., Wilmette, Ill.

The Trade's Buying Guide— The American Nurseryman Ads.

WANTED

Cut Pussy Willow, Forsythia, Hemlock, Blue Spruce, Buxus, Ferns. ARTHUR V. LEY La Plata, Md.

WANTED. 20 Prunus maritima. 10 about 4 to 5 ft. nd 10 about 3 to 4 ft. Must be vigorous and bushy. PALMER'S NURSERIES, Rye, N. Y.

WANTED-100 Colorado Blue Spruce, 15 to 18 ins., 18 to 24 ins., well shaped, sheared. R. LAMBECK NURSERY, R. D. 1, Cora-

WANTED-Large plants of Hybrid Clematis for forcing.

THE PETER CASCIO NURSERY
2600 Albany Ave., West Hartford 7, Conn.



MALONEY BROS. NURSERY CO., Inc.

Offer the following Quality Stock at Reasonable Prices for Spring, 1952

Standard Apple, 1 and 2-yr.

Plum, 1 and 2-yr.

Quince, 1 and 2-yr.

Standard and Dwarf Pear. 1 and 2-yr.

Sweet and Sour Cherry, on Mahaleb and Mazzard roots, 1 and 2-yr. True-to-name and free from disease, for Spring, 1952, orders.

Also Peach, 1-yr.

Shrubs, Shade Trees, Evergreens

Write for our Wholesale List.

Save Money-Let us Quote on Your Requirements

MALONEY BROS. NURSERY CO., Inc. DANSVILLE, NEW YORK

Our 68th Year

\$55,000,000



 Are spent by American Gardeners annually for roses, nursery stock and equipment. This is Big Business. Get Your Share!

We grow and wholesale the world's best Roses. They have a world of sales appeal!

> Write today for catalog and price list.

CO-OPERATIVE ROSE GROWERS TYLER • TEXAS

PRUNING TIME.

[Continued from page 12.]

the minimum of pruning. Unless they have some outstanding characteristic, plants should not be used if they require the constant removal of much dead or weak wood, as is the case with most species of lonicera and spiraea. Evergreens and shrubs which require constant pruning to be kept at the desired size should not be used. Both the nurseryman and the customer will benefit by proper plant selection. There are three possible measures to be taken in the case of old, overgrown shrubs. The shrubs can be cut to the ground and a few of the new, strong shoots selected and pruned to develop the new top. A gradual renewal system can be followed, by removing a few of the older stems or shoots each year and leaving a few of the new ones to develop. However, this practice should be started before the plants are overgrown. The third, and often most logical and inexpensive way, is to remove the unsuitable shrubs and replace them.

Extensive pruning on established shrubs can be done during the dormant season, before growth starts, regardless of the flowering period of the plant. Plants that are heavily pruned will bloom little for one year, so that if pruning is postponed until after bloom, there will be little bloom the next year. In addition, if they are pruned after flowering, the dwarfing effect will be more severe than if they are pruned during the late winter or early

spring.

The pruning of rosebushes previous to storage or at planting time in the spring should be less severe than that which is often practiced. Research has shown that cutting the canes back to less than ten inches on vigorous-growing varieties reduces bloom the following year, although canes can be cut back to six inches when the rosebushes are planted out in the spring without reducing bloom. In weak varieties reduction of cane length, either when the rosebushes are stored or when they are planted out, reduces the bloom. Established rosebushes should be pruned in the spring.

Early corrective pruning of trees makes possible small cuts, which heal quickly, and allows the selection of proper branches to make a good top. It will avoid the development of weak crotches and will overcome much of the need for cabling, bracing and cavity work. It is a good practice to prune for strength in



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Owner wishes to retire and will lease entire plant and equipment on percentage basis. Address Box 854, care of American Nurseryman.

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Experienced, progessive, mail-order man for catalog work, advertising, correspondence, etc. Must be able to handle office personnel, etc. Good opportunity for experienced man with large nursery located in the east, Give full particulars; experience, salary, etc. Address Box 849, care of American Nurseryman.

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Experienced man to take charge of greenhouse for propagating evergreen trees and shrubs. Permanent position for the right man. State salary expect-ed and experience.

BENEDICT NURSERY CO. 735 N.E. 87th Ave. Portland, Ore.

HELP WANTED

Experienced rose man, Large, well known, eastern nursery has a good opening for alert man with experience in budding, growing, storing and shipping rosebushes for retail mail-order and wholesale trade, Please write full particulars, including salary expected, All correspondence confidential. Address Box 848, care of American Nurseryman.

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Landscape architect or salesman ca-pable of drawing plans, meeting the public and selling. Give full particulars, age, experience and salary expected. Permanent position. KANSAS LANDSCAPE & NURSERY CO. Sallna, Kan.

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HELP WANTED—Good salary and bonus offered experienced landscape designer with ability in executing and supervising small landscape plantings. Established Long Island firm of landscape contractors has exceptional opportunity with sound future for aggressive, capable man able to assume responsibility. For interview, address Box 853, care of American Nurseryman.



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CONCOLOR FIR Excellent ornamental—one of the best	CANADIAN HEMLOCK 3-yr., 5, 8 to 14 ins 12.00 60.00
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SITUATION WANTED

Propagator, with 25 years experience with hardwoods and softwoods, tropical and subtropical. Can handle help efficiently, a good planner, also. Basic education in horticulture received in England and Scotland. South or middle south location desired. Address Box 851, care of American Nurseryman.

SITUATION WANTED

Landscape man, capable, experienced. Can handle the job from drawing plans to completion of work. South or middle south location desired. Address Box 850. care of American Nurseryman.

FORMERLY employed by his father-in-law, W. R. Schell, Schell Nursery, Tulsa, Okla., Donald S. Kauffmann has opened the firm of D. S. Kauffmann & Associates, landscape architects, at Tulsa. The office is at 4507 South Peoria street.

BEGINNING in the general landscape business on his property at 400 Sunset boulevard, Great Falls, Mont., Nick Poncelet, Jr., has named his firm the Poncelet Landscape-Leveling Service.

NEW CHRYSANTHEMUMS.

Chrysanthemums Legionnaire and Amvet are the introductions for 1952 of Corliss Bros. Nurseries, Gloucester, Mass., appropriately taking their places beside those named for three generals a year ago.

Legionnaire is a double decorative chrysanthemum, with long fluffy petals of Empire vellow, lightening to lemon chrome on younger petals toward the center, revealing a golden eye. It yields several flowers on a single stem to adorn the profusely branching plants from late August to heavy freeze. The foliage is dark green and of firm texture. The plant makes a dense, compact mound.

Amvet bears double, white flowers with inner petals of delicate gold and a deeper yellow eye that gives the large flower much depth. Each plant sends out many rigid, well branched stems with a continual supply of flowers for cutting. The plant is trim, compact and about two and one-half to three feet wide and three feet high the first season.

PLANT NOTES.

[Continued from page 26.]

soft pink for charming autumn pic-

The blue flowers of the autumn border would not be complete without the lovely little leadwort, Ceratostigma plumbaginoides, Plumbago larpentiae, or otherwise, according to vour botanical leaning. Put it in front of one of the dwarf asters, like Snow Sprite, and it will help to make the fall garden a more pleasant spot to spend the brilliant autumn days.

Native Willow Herbs.

A reader wonders if there are any other native willow herbs except Epilobium angustifolium that he could add to his line.

Epilobium is a vast genus numbering more than two hundred species. As would be expected in such an assemblage, many weeds are to be found, though careful search reveals a few good garden plants. Really valuable forms among our native species are not numerous, so far as I have found, but a few, including the common willow herb, angustifolium, have definite value.

The species just mentioned is too well known to take up space, I suspect, but it has a white-flowered form, the variety album of lists, that is an attractive garden plant and, in addition, makes an excellent cut flower. I have not seen it for several years and am afraid that it has disappeared from regular trade channels. It is mentioned now with the hope that someone may bring it to light, for it is a plant that nurserymen should have. The great willow herb does best in good, moist soil, where it may attain the imposing stature of seven or eight feet. However, it is tolerant of dry soil and is less troublesome as a spreader under the latter conditions.

Epilobium latifolium apparently varies much in stature over the northern portion of our continent. Plants coming to me from the Lake Superior region grew as high as eighteen inches, while the alpine forms from the Rocky mountains are said to reach no more than one-third of that figure. I have never had the alpine forms, but they are said to be good rock garden plants, requiring a wet moraine or a position where they will have constant moisture during the growing season. E. latifolium has gray, hoary leaves and large purplish flowers, as much as two inches across in well grown

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My experience with E. obcordatum was not a happy one, and I should not recommend it for general culture in lowland gardens. It comes from the high places in the Sierra Nevada range in California, where it is said to grow on sunny slopes. It is a 3 or 4-inch plant, spreading into pleasing masses of green in favorable locations, and it produces innumerable rosy flowers during June and July. Unfortunately, I was never able to provide a favorable location for more than a short period, and our experiments pointed to no definite conclusions. At one time I thought the plant might not be hardy, but that can scarcely be true, for it is subjected to intense cold in its mountain home. It became apparent that our winter losses could be traced to too much moisture while the plants were dormant. Perhaps it could be made permanent if given perfect drainage, yet with some provision for a bountiful supply of moisture during the growing season.

Epilobiums grow readily from fallsown seeds. They may also be endlessly propagated by division and from cuttings taken in midsummer. They do not handle well after they have grown into large plants.

The Poppy Mallow.

In our garden, which unfortunately has been shamefully neglected during late years, one of the most pleasing sights last summer was a planting of poppy mallows. "If we could," as Mrs. Wilder suggested in one of her books, "strike out the word magenta, so laden with custom-made stigma, and use only those other color names, all pleasant sounding and suggestive, we should lose much of the antipathy now felt for the flowers that wear it." She refers, of course, to the close associates of magenta, such as Liseran purple and Indian lake of Ridgway. By using them when speaking of magenta colors, we should then be able to enjoy the "exquisite, sprawling poppy mal-' to say nothing of numerous other plants, without loss of face.

Enjoy it we surely would, for summer offers no gayer companion and the year no brighter ornament than the pleasing shade of purple found in the large poppy-like saucers of the western poppy mallow, borne on long prostrate stems from June onward. Forget that it bears the blot of magenta and delight in its magnificent splendor, knowing that you have one of the greatest authorities

on modern gardening, William Robinson, on your side.

The common name, poppy mallow, more apt than many English names, is misleading because the plant is neither poppy nor mallow, though it comes close to being a mallow. Its botanical name may mean more when we are reminded of what Thomas Meehan wrote about it. "According to the ancient legends, Callirhoe, 'the beautifully flowing,' was a nymph of the sea, one of the daughters of Oceanus and Tethys. After her was named a beautiful fountain at Athens, which exists to this day, and from which flow nine streams in different directions. As the flowering branches of our callirhoe trail along the ground and emanate from a central point, like so many pretty little streams starting from one fountainhead, it might be fancied that the name was suggested by the similarity to the beautiful flowing well at Athens." The name, callirhoe, comes from two Greek words, signifying beautiful and a stream or something flowing.

The Gold Fern.

I am a great admirer of ferns and deplore the fact that they are so seldom used in gardens. However, I never have been one to clutter up my feeble brain with the nomenclatural gymnastics of serious fern students as they substitute new names for ones they have worn out. The foregoing remarks are made a part of what is to follow, because the generic name, ceropteris, of the plant to be discussed is no longer accepted by the botanists. I understand their present name is Pityrogramma triangularis, but the plant may also be found as gymnogramma. In the light of all this, we may be pardoned when we call it simply the gold fern. The important part for the plant grower is the fact that it is an excellent garden plant.

It is native to the coast states from California to British Columbia, and that might indicate a tenderness to cold. Actually, it is hardy and should be able to withstand all except the coldest climates. Wherever it can be used, it would certainly be a good addition to our unfortunately short list of plants for dry soil in part shade. The gold fern will decorate these difficult situations with golden-backed, dark green fronds up to ten inches in length and half that in width.

ALL assets of Caribbean Nurseries, Inc., Opa Locka, Fla., have been purchased by Hugh Lalor, and



Paragon Sprayer No. 3 delivers a uniform spray 30 to 40 feet from the nozzle and completely covers an area of more than 1200 square feet. It protects a full-grown tree as easily as a seedling or a potted plant.

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NORTH JERSEY MEETING.

An address by George White, Bobbink & Atkins, East Rutherford, N. J., was the highlight of the recent meeting of the North Jersey Metropolitan Nurserymen's Association, held at Paterson, N. J. The title of Mr. White's talk was "How to Make a Living in the Nursery Business.

The speaker discussed the matter of competition from industry and government and also explained what nurserymen could charge off their income tax as business expenses. He covered the possibility of raising the price of plant material to help offset higher costs and suggested that nurserymen grow only a few items and grow them well, rather than try to raise too many.

Mr. White outlined the value to nurserymen of top-quality plants in small and medium sizes. He emphasized the importance of treating customers fairly at all times, no matter what type of merchandise they might buy. He urged his listeners to buy only what they needed and, in the field of labor, stressed the need of training new men in correct methods for maximum efficiency. The talk contained much usable information and was well received by the mem-

President Roy Blair, Blairs' Nurseries, Nutley, N. J., appointed a better plants committee composed of the following members: Harry Deverman, nurseryman, Clifton, N. J.; Oker DeVries, landscape gardener, Ramsey, N. J.; Carl Maleiki, landscape gardener, Spring Valley, N. Y.; John Kluis, Kluis Nursery, Pompton Plains, N. J., and Charles Ur, Maple Grove Nursery, Montville, N. J.

This committee has met three times since its appointment and expects to present a list of better plants to the association at its regular January meeting.

Edward S. Wyckoff, Sec'y.

TURNER PROMOTED.

Neely Turner, entomologist at the Connecticut agricultural experiment station, New Haven, has been appointed to the post of assistant director of the station.

Mr. Turner has been associated with the station for twenty-four years, joining the staff in 1927 as an assistant entomologist. He became associate entomologist in 1943 and entomologist in 1950. During his station career, he has become well known for his laboratory researches on the toxicity of insecticides, as well as his development of control measures for several important vegetable insect pests.

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JUST POTTED_

Will last full season on top of ground. Samples on Request.

"ROOTS-THRU" POT
BOULEVARD NURSERIES

REALISM AND

SELF-RELIANCE.
[Continued from page 22.]

This is evidence enough for me to indicate that sooner or later, as a result of the importation of plant materials from foreign countries in any great quantity, some new pests will become established here that we will be very sorry to have to fight later on.

I have recently had occasion to investigate the total cost to the federal government of the Japanese beetle since its introduction in this country in 1919—32 years ago. The figure is \$11,031,347. This does not include the federal or state governments' expenditures for research on the pest nor the expenditures of the states for quarantine enforcement and control and eradication procedures. The European corn borer from 1919 to 1945 cost us approximately \$19,500,000; the gypsy moth, approximately \$45,000,000; white-pine blister, rust, another \$45,000,000; the Dutch elm disease, a more recent arrival, \$25,000,000, and so on down the list of these foreign pests.

Additional ports of entry for the further importation of plant materials in quantity are now requested. pots before planting, thus mini-Instructions on each pot.

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Coupled with this request has been a request for the federal government to send our inspectors into foreign countries to inspect this nursery stock at point of lading rather than at port of entry.

We have always been told that certain foreign governments have the best inspection system in the world, better even than our own port-ofentry inspection. If this is the case, I then pose this question: "Why do our own inspectors find so many pests on this imported nursery stock when it arrives at our port of entry here on this side of the water?" I also

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It does a finished grading job . . . is ideal for spreading top soil . . . works close to foundations or buildings . . . and is easily stored.

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pose this question: "If these foreign inspectors are so good and are so much superior to our own, why is it that they do not find these pests when the shipment leaves the foreign port and how could our own inspectors do any better?"

The answer does not lie in spending American money to send gov-ernment employees into foreign lands to do inspection of foreign crops. The answer lies in maintaining a very able and efficient inspection service at our own ports of entry and to exclude all plant materials that are not needed in this country for the advancement of our agriculture, horticulture and forestry. Those that may be needed should be brought in, in my judg-ment, in limited quantities only, and then for propagation purposes under postentry quarantine procedures and not for immediate resale. We have an arbitrary quota system regulating the migration of people to this land of the free. Is it worse to have a quota system on plants? This is the only way that American horticulture can be as certain as possible that the same distressing experiences which followed the Japanese beetle and other pest introductions can be avoided.

There are still a lot of people in the nursery business who remember that when the Japanese beetle struck the east, a rigid and strict quarantine, that actually put nursery concerns out of business for several years, was enacted, and you can rest assured that the same quarantine procedure on a domestic scale will again be used if such a new pest be introduced.

Every purchase of plant material in foreign countries, imported into this country in any quantity, is an invitation for trouble and disaster. It will strike first on the nurseries which are importing this material. It will strike second on the nurseries



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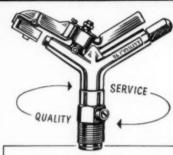
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within the state where the infestation is first found, due to quarantine action that will be inevitable. It will strike at our own pocketbooks as well as the pocketbooks of the American people when they start footing the bills for quarantine and control procedures. The question before us is: Shall we continue to court trouble for temporary advantage, or shall we think realistically about this problem and import into this country only those plants that are needed for the continued healthy promotion of the industry, and then only in limited quantities?

On the domestic scale, our policy on quarantines is also clear. We insist that all domestic quarantines, both federal and state, be in conformance with the principles of plant quarantines as adopted by the national and regional plant boards, and that continuing surveys and research be undertaken in order that the quarantines and their rules and regulations may be kept up to date and in conformity with these principles.

It is my view that, in order to be realistic about our domestic plant quarantines, the nurserymen generally must support a sane quarantine program for their own protection, as well as for the protection of related

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fields of agriculture and forestry. It is also my opinion that this program must be under constant review and also subject to constant questioning as to its need and its operation. Only in this way can domestic quarantine procedures and activities, both on the federal and state levels, be adjusted to meet changing conditions of pest infestation and spread, of control procedures newly developed as a result of research and of maintenance of the quarantines on an efficient and economical basis in light of the risk involved.

We must accept the international and the domestic quarantine problem on a basis of the protection of nursery stock cultures in this country that quarantines offer and only on this basis. I certainly believe that our "foreign policy" in regard to plant materials should be similar to that held by many in the political field: We should permit importation of plant material only so far as such importation does not jeopardize the loss of our own freedom in this country. We can be certain that the establishment of additional pests in this country from foreign lands will lead inevitably to quarantines, to control and regulation and, subsequently, to an abridgment of our business freedom. This is not what makes our business free. This is the exact set of conditions that brings on more and more government regulations and control over the distribution phases of the industry.

4. Research.

The time is here, in my judgment, when we must face realistically the fact that this industry cannot expect too much assistance in research from state or federal governments. The policy of the A. A. N. in regard to research is "to encourage and sponsor research on production and distribution to the full extent of our ability.'

Realizing that the public trough is getting dry and realizing that there are many basic problems of production, distribution and economics in the industry that can be solved only by research, the board of governors last July authorized the board of directors to proceed to the establishment of a research foundation supported by industry funds, directed by industry members and aimed toward the solution of industry problems. As soon as the basic organization work is done on this research foundation, members of the industry will be asked to subscribe, largely out of their tax dollars, to the support of this foundation. The principal will not be touched, but the income from the principal will be used to support re-

Without any more work, you can greatly increase your yields the easy SUDBURY Way! Shows just how much nitrogen, phosphate and potash to use for every bench and field to get the most fancies, niggest crops and top market prices. Also tells whether lime is needed (pH) and how much.

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search activities in public or privately endowed institutions suitable for the project at hand, previously approved by the foundation.

This is a new approach to our research problems, but it is the only approach that I see available that will produce for the industry the answers to industry problems such as the testing of new varieties in a well organized system of test gardens, the control of certain widespread plant diseases and insect pests which are not being attacked by either federal or state agencies, or the support of research in seed germination, cost accounting, distribution, packaging, storing, hardiness, agricultural economics and subjects of this nature. This research foundation, in my view, would support such items of research as I have mentioned. It would leave the research field open for state associations in cooperation with their state agricultural colleges to attack local problems, and it would leave the field open for any individual nurseryman or group of nurserymen to band together to support research.

A self-reliant industry should support its own research activities.

5. New Varieties.

New varieties serve as the stimulation to new activity within the industry and are needed to keep pace with the changing trends of archi-

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tecture and garden design. Today nurserymen are in a sellers' market and are able to sell just about anything with roots attached to it. This situation will not always last, however, and there is a crying need now to invest funds for the development and propagation of newer varieties that will meet present-day needs.

The All-America Rose Selections, we believe, are doing an outstanding job in this field for one class of nursery stock; namely, roses. The manner in which the All-America Rose Selections are selected, propagated and put on the market, and the acceptance which is given to them by the consuming public, is evidence of the success of this type of research and promotion. The camellia growers have recently organized a similar movement, and it is anticipated that they will secure similar success. Last year the A. A. N. authorized its botanic gardens and arboretums committee to survey the possibility of setting up test gardens for new varieties of woody shrubs, exclusive of roses, in a sort of All-America shrub program where new varieties of woody plants, exclusive of roses, may be tested. The cooperation of the American Association of Botanic Gardens and Arboreta would give stimulation to the development of new varieties of plants in this category.

The A. A. N. woody plant register is a part of the same movement where the records of these new introductions are deposited. The Colman award, established three years ago by the A. A. N., is also a facet of this same problem, as the award may be granted for the production and testing of new varieties of horticultural plants. The plant patent law has given great support to plant hybridizers, and it would seem only good business sense to invest some of the dollars earned now in long-time plant hybridizing and testing efforts.

This is probably not a project for

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the small landscape nurseryman, although he is the one who feels the crying need for new varieties of material with which to work. It is basically a job that should be supported by the larger producers in their own organization so that they can protect their introductions and their investments by the patent law. It might be a part of the research program of the association, but, in such a case, it would have to be recognized as being a long-term effort, from which immediate results should not be expected.

In any case, I feel sure that the time is fast approaching, if not already here, when the consumers of our commodities are going to be looking for something besides the ordinary run-of-the-mill material. It is then that we had better have such material at hand or the pressure will be to introduce newer varieties of material from abroad in large quantities with its attendant pest risk

To be realistic about this problem, how much better it would be for us to develop our own new varieties in this country by our own well-trained hybridizers and horticulturists and thus avoid the risks involved in following any other procedure. Let us look ahead for 25 years rather than for 25 months. It will lead to a much safer and sounder program of plant development and production than otherwise would be the case.

6. Fair Trade Practices.

A set of fair trade practice rules does nothing more or less than to formalize good business ethics and procedures. They protect the public from fraud and the legitimate members of an industry from unfair and unprincipled competition.

As a result of certain practices of recent years, the industry is losing full value of its investment in building up a good public relations atmosphere among consumers. The delivery of material which does not meet the specifications described brings more harm to our public relations than most of us realize. When sharp business practices lead to editorials in such magazines as Printer's Ink. then the damage to our public relations is multiplied.

I refer to the article by R. O. Eastman, appearing in the October 6, 1950, issue of Printer's Ink, entitled "A Small Leak in Consumer Good Will Can Make a Big Bad Puddle." Mr. Eastman describes his experience in ordering from a Sunday newspaper advertisement a bill of goods from a particular nursery. His experience was so bad and discouraging that he indicates that he



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not only is never going to order anything from that particular nursery again, but, what's more, he was determined not to order anything from that whole page again. This one advertiser cooked the goose for all others

This incident impresses me with the responsibility that one advertiser has in each of his customer relations for all the rest of the advertisers. It impresses me also with the responsibility that each member of our industry has to every other member of the industry. What one member does to destroy consumer good will has its direct influence on all other members of the industry. Conversely, what one member does to improve consumer good will is likewise a good influence to all other members of the industry. Fortunately, the pluses and minuses, when averaged out, are very much on the plus side. It is indeed discouraging, however, to see an industry spending even a moderate amount of money for promoting public good will by our "Plant America" program and then to see, on the other hand, business practices that tend to destroy in part that which we have

This has been an irritating point for many years within the associa-tion and within the industry. We have even suspended firms from membership for activities that were considered by the board of directors or the executive committee to be unfair trade practices. But this is not the solution to the problem. The solution to the problem on a national scale is, I believe, the establishment and acceptance of a set of fair trade practice rules worked out in cooperation with the federal trade commission under the authority given to it by the federal trade commission

These fair trade practice rules are promulgated only after they have been thoroughly discussed in open meetings by all members of the in-

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dustry with everybody having an opportunity to be heard, whether they are members of the A. A. N. or not. The rules will apply to all members of the industry, whether members of the national trade association or not. The only way to get all competitors to play under the same set of rules that the great majority of the industry already follow would be through some such program as outlined above.

In previous years, objection has been raised to such a program, in substance to the effect that the industry should not get entangled with any governmental red tape through any such commission as the federal trade commission. The industry is confronted with a problem detri-mental to it. It has a decision to make: Will we take the necessary steps to clean up our own house and demonstrate that the industry accepts its responsibility to its consumers as related to merchandising practices? This is the decision which must be made sooner or later and, in my judgment, the sooner it is made the better

I know there are those in the industry who will not agree with my viewpoint. Progress is never made by agreements. Progress is made by disagreements, by differences of opinion that can be argued and compromised by reasonable men. The problem is there and is increasing. What will we do with it?

Freedom Is Not Free.

In conclusion, 1952 is going to be a year of a great decision that we, as individuals, must make. It is a decision as to whether or not we, as citizens of the United States, wish to retain some semblance of a free economy, or whether we want to take the last turn around the corner toward a completely socialized state.

I have already indicated the trend toward government control and operation of our transportation system. We have only to read the Congressional reports to see that the trend is definitely toward more and more

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so-called "security" supported by government, which automatically gives us less and less individual freedom of action and freedom of initiative. In recent years we have been giving away bit by bit our individual freedoms in the hope of getting in exchange a so-called "security." We have not vet got socialized medicine nor socialized education, but those are key planks in the program of some, which the Congress has consistently rejected.

These forces are still at work, however, and we must guard against them. The attitude of many businessmen in this country today is that they, individually, can do little about stopping the present trend. Nothing could be further from the truth and, if the trend is not stopped in 1952. then it is my opinion that 1956 will see the last of our free enterprise system that made this country the country that it is today. As has been so aptly said by one political leader, "This is the last call for dinner."

It has been said truthfully, "Today's business leader cannot justify his existence by profit statements alone. He must also render service to his local, national and world community." The best service that we, as business leaders today, can render to this country and to coming generations is to be certain that our constitution is upheld and that we discard all philosophies to the contrary. We must actively support those candidates in 1952 under whatever party label they may be running who forthrightly denounce this trend to greater and greater bureaucracy, more and more taxation, more and more spending and less and less of personal and business freedom. Thomas Paine aptly expressed a fact when he said, "Those who expect to reap the blessings of freedom must, like men. undergo the fatigues of supporting it."

We will be tried for size in 1952. Will we measure up? Can we undergo the fatigues of saving freedom? Will we be willing to pay the price for freedom, or will we lose freedom by default? That is the big question of 1952.

U. S. D. A. APPOINTMENT.

Karl S. Quisenberry has been appointed assistant chief in charge of program planning and coordination for the bureau of plant industry, soils and agricultural engineering of the United States Department of Agriculture. He succeeds Dr. A. H. Moseman, new chief of the bureau. Dr. Quisenberry entered the department in 1925.